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Search information block:
Query: us-09-680-514-4
Query length: 1047
Database: US09680514.pep.*
Database sequences: 24
Database length: 2736
Search time (sec): 17.370000

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alignment_scores:
  Quality: 1769.00      Length: 349
  Ratio: 5.069          Gaps: 0
  Percent Similarity: 100.000  Percent Identity: 100.000

alignment_block:
  us-09-680-514-4 x US-09-680-514-5  ..

Align seg 1/1  to: US-09-680-514-5  from: 1  to: 349

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1  MetGlulLeuThrGlulLeuLeuLeuValValMetLeuLeuLeuThrAla  17

51  GCTAACGCTGTCCAGCCGGCTCCTCCTGCTGTGTGACTCCGAGTCTCA  100
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17  gLeuThrLeuSerSerProAlaProProAlaCysAspLeuArgValLeu  34
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101  GTAAACTGCTTCGAGACTCCCATGCTCCTTCACAGCAGACTGAGCAGTGC  150
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34  erLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCys  50
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151  CCAGAGGTTTACCCTTTTGCCCTACACCTGTGCTCCTCGCTGTGGACTT  200

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	US09680514.p	US-09-680-514-7	+ 1753.00	727.40	7,8e-38	361 Sequence 7, Applicat
	US09680514.p	US-09-680-514-9	+ 1751.00	726.61	8,6e-38	365 Sequence 9, Applicat
	US09680514.p	US-09-680-514-1	+ 1677.00	697.37	4,0e-36	328 Sequence 1, Applicat
	US09680514.p	US-09-680-514-2	+ 1661.00	691.05	8,9e-36	340 Sequence 2, Applicat
	US09680514.p	US-09-680-514-3	+ 1659.00	690.26	9,6e-36	344 Sequence 3, Applicat
	US09680514.p	US-09-680-514-39	+ 851.00	371.00	1,1e-17	175 Sequence 39, Applicat
	US09680514.p	US-09-680-514-40	+ 835.00	364.67	1,4e-17	132 Sequence 40, Applicat
	US09680514.p	US-09-680-514-3	+ 87.50	69.31	0,3672	340 Sequence 2, Applicat
	US09680514.p	US-09-680-514-3	+ 87.50	69.31	0,3629	344 Sequence 3, Applicat
	US09680514.p	US-09-680-514-7	+ 87.50	69.31	0,3458	361 Sequence 7, Applicat
	US09680514.p	US-09-680-514-9	+ 87.50	69.31	0,3420	365 Sequence 9, Applicat
	US09680514.p	US-09-680-514-1	+ 82.50	67.34	0,4871	328 Sequence 1, Applicat
	US09680514.p	US-09-680-514-5	+ 82.50	67.34	0,4578	349 Sequence 5, Applicat
	US09680514.p	US-09-680-514-40	+ 56.00	56.87	1,69	332 Sequence 40, Applicat
	US09680514.p	US-09-680-514-15	+ 48.00	0.00	338.75	8 Sequence 15, Applicat
	US09680514.p	US-09-680-514-17	+ 48.00	0.00	338.75	8 Sequence 17, Applicat
	US09680514.p	US-09-680-514-39	+ 48.00	53.71	4,56	175 Sequence 39, Applicat
	US09680514.p	US-09-680-514-31	+ 44.00	0.00	338.75	8 Sequence 31, Applicat
	US09680514.p	US-09-680-514-33	+ 42.00	0.00	338.75	8 Sequence 33, Applicat
	US09680514.p	US-09-680-514-26	+ 40.00	0.00	338.75	8 Sequence 26, Applicat
	US09680514.p	US-09-680-514-28	+ 36.00	0.00	301.11	9 Sequence 28, Applicat
	US09680514.p	US-09-680-514-42	+ 34.00	48.17	86.08	16 Sequence 42, Applicat
	US09680514.p	US-09-680-514-35	+ 34.00	48.17	81.01	17 Sequence 35, Applicat
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	US09680514.p	US-09-680-514-35	+ 33.00	47.78	83.85	17 Sequence 35, Applicat
	US09680514.p	US-09-680-514-44	+ 32.00	47.38	132.87	12 Sequence 44, Applicat
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	US09680514.p	US-09-680-514-24	+ 30.00	46.59	121.05	13 Sequence 24, Applicat
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	US09680514.p	US-09-680-514-31	+ 23.00	0.00	338.75	8 Sequence 31, Applicat
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	US09680514.p	US-09-680-514-17	+ 22.00	0.00	338.75	8 Sequence 17, Applicat
	US09680514.p	US-09-680-514-45	+ 22.00	0.00	338.75	8 Sequence 45, Applicat
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	US09680514.p	US-09-680-514-26	+ 22.00	0.00	301.11	9 Sequence 26, Applicat
	US09680514.p	US-09-680-514-19	+ 20.00	0.00	338.75	8 Sequence 19, Applicat
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	US09680514.p	US-09-680-514-19	+ 18.00	0.00	338.75	8 Sequence 19, Applicat
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251 TTCTGGGAGCAGTACCCCTTCTGCTGGAGGAGTGTATGGCAGCAGGGGA 300
    |||||
84 LeLeuGlyAlaValThrLeuLeuLeuGluGlyValMetAlaAlaArgGly 100
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301 CAACCTGGGACCCACTTGCCTCTCATCCCTCTCTGGGCGAGCTTCTGGACA 350
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101 GlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGI 117
    |||||
351 GGTCCGCTCTCTCTGGGCGCTGCGAGAGCCCTCTTGAACCCAGCTTC 400
    |||||
117 nValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuP 134
    |||||
401 CTCACAGGGCAGGACACAGCTCACAGGATCCCAATGCCATCTTCCTTG 450
    |||||
134 roProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeu 150
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451 AGCTTCCACACCTGCTCCGAGGAAAGTGGCTTCTGTGATGCTGTAGG 500
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151 SerPheGlnHisLeuLeuArgGlyLysValArgPheLeuMetLeuValGI 167
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501 AGGTTCACACCTCTGCTAGCGGGGGCCCAACATATCGCGCTCGAGTC 550
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551 TACCACAGAGCTTCTTTTAAAAAGCTTAGAGCAAGTGAGGAAGATCCAG 600
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184 euProGlnSerPheLeuLeuLysSerLeuGluGlnValArgLysIleGln 200
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    |||||
651 CCACCCGAGGAGCTGTGCTCGGACACTCTCTGGGCATCCCTGGG 700
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701 CTCCTCTGAGCAGTGCCTCCAGCGAGCCCTGCGAGTGGCAGGCTGCTTG 750
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801 GGAAGGATCTCCCGGAGTTGGTCCACCTTGGACACACTGCAGCTGG 850
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267 uGluGlyIleSerProGluLeuGlyProThrLeuAspThrLeuGlnLeuA 284
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    |||||
901 ATGGCCCTTGCCTGCAGCCCAACCCAGGCTGCCATGCCGCGCTTCGCCCTC 950
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301 MetAlaProAlaLeuGlnProThrGlnGlyAlaMetProAlaPheAlaLe 317
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951 TGCTTTCCAGCGCGGCGAGGAGGGTCTAGTTGGCTCCCATCTGCAGA 1000
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317 rAlaPheGlnArgArgAlaGlyValLeuValAlaSerHisLeuGlnS 334
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1001 GCTTCTGGAGGTCTGTACCGGCTTCTAGCCACCTTGCCTCCAGGCC 1047
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seq_name: US09680514.pep:US-09-680-514-7

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; Sequence 7, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;           Shiotsu, Yukimasa
;           Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-680-514-7

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    Ratio: 5.023          Gaps: 1
    Percent Similarity: 96.676      Percent Identity: 96.676

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  |||||
17 gluThrLeuSerSerProAlaProAlaCysAspLeuArgValLeuS 34

101 GTAACTGCTTGTGACTCCCATGCTCTTCACAGCAGACTGAGCCAGTGC 150
  |||||
34 erLysLeuLeuArgaspSerHisValLeuHisSerArgLeuSerGlnCys 50

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351 GGTCCTCTCTCTCTGGGGCCCTGCAGAGCTCTCTGGAAACCCAGCTTC 400
117 nValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuP 134
401 CTCACAGGGCAGGACACACAGCTCACAGGATCCCAATGCCATCTCTCG 450
134 roProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeu 150
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501 AGGCTCCACCCCTCGCGTACGG..... 522
167 yGlySerThrLeuCysValArgGlyGlySerGlyGlySerGlyG 184
523 .....CGGGCGCCAAATATCGCGCTCGAGTCTACCACAGAGCTTC 564
184 yGlySerArgAlaProThrTyrArgAlaSerSerLeuProGlnSerPhe 200
565 CTTTTAAAAAGCTTAGCAGAGTGAAGATCCAGGCGCATGCGCAGC 614
201 LeuLeuLysSerLeuGluGlnValArgLysIleGlnGlyAspGlyAlaAl 217
615 GCTCCAGGAGAGCTGTGTCACCTACAGCTGTGCCACCCCGAGGAGC 664
217 aLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProGluGlu 234
665 TGGTGTCTCGGACACTCTCGGCGCTCCCTGGCTCCCTGAGCAGC 714
234 euValLeuLeuGlyHisSerLeuGlyIleProTrpAlaProLeuSerSer 250
715 TGCCCCACCCAGGCGCTCGAGCTGGCAGCTGTGAGCCCAACTCCATAG 764
251 CysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSe 267
765 CGGCTTTCTCTTACCAGGGGCTCTGCAGGCGCTGGAAGGATCTCCC 814
267 rGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerP 284
815 CCGAGTTGGGTCCCCACCTTGGACACACTGCAGCTGGAGCTGCCGACTTT 864
284 roGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaaspPhe 300
865 GCCACCACTCTCGCAGCAGATGGAAGAACTGGGAATGGCCCTGCGCCT 914
301 AlaThrThrIleTrpGlnGlnMetGluGluLeuGlyMetAlaProAlaLe 317
915 GCAGCCCAACCCAGGTCGCATCGCGGCTTCGCCTCTGCTTTCCAGCGCC 964
317 uGlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgA 334
965 GGGCAGGAGGGCTCTAGTTCCCTCCCATCTGCAGAGCTCTCTGAGGTG 1014
334 rGAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluVal 350
1015 TCGTACCGCGCTTCTACGCCACCTTGGCCCGAGCCC 1047
351 SerTyrArgValLeuArgHisLeuAlaGlnPro 361
seq_name: US09680514.pep:US-09-680-514-9
seq_documentation_block:
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; Sequence 9, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-680-514-9

alignment_scores:
Quality: 1751.00 Length: 365
Ratio: 5.017 Gaps: 1
Percent Similarity: 95.616 Percent Identity: 95.616

alignment_block:
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51 GCTAACGCTGTCCAGCCGGCTCTCTGCTGTGTGACCTCCGAGTCTCA 100
|||||
17 gLeuThrLeuSerSerProAlaProAlaCysAspLeuArgValLeuS 34
101 GTAAACTGCTTCGTGACTCCCATGCTTTCACAGCAGACTGAGCCAGTGC 150
|||||
34 erLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCys 50
151 CCAGAGGTTACCCCTTTGCTTACACACTGCTCTGCTGCTGTGGACTT 200
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51 ProGluValHisProLeuProThrProValLeuLeuProAlaValaspPh 67
201 TAGCTTGGGAGAATGGAAACCCAGATGGAGGAGACCAAGGCACAGGACA 250
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251 TTCTGGGAGCAGTACCTTCTGCTGGAGGAGTGTGAGGCAGCAGGGGA 300
84 leLeuGlyAlaValThrLeuLeuLeuGluGlyValMetAlaAlaArgGly 100
301 CAACTGGGACCACTTGCCTCTCATCCTCTCTGGGGAGCTTTCTGGACA 350
101 GlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyG 117
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251 ProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaGlyCysLeu 267
753 CCAACTCATAGCGGCTTTTCTCTACCGAGGCTCTCTCAGCGCCCTGG 802
267 rGlnLeuHisSerGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeu 284
803 AAGGATCTCCCCGAGTTGGTCCCGCTGGACACACTGCGAGCTGGAC 852
284 luGlyIleSerProGluLeuGlyProThrLeuAspThrLeuGlnLeuAsp 300
853 GTCGCCGCACTTTGCCACCACTCTGCGACAGATGGAAGAACTGGGAAT 902
301 ValAlaaspPheAlaThrIleTrpGlnGlnMetGluLeuLeuGlyMe 317
903 GGCCCTCTGCTCGACCCAGGCTGGCCATGCCGCTCTGCTGCTG 952
317 talaproAlaLeuGlnProThrGlnGlyAlaMetProAlaPheAlaSer 334
953 CTTTCCAGCGCGGCGAGGAGGCTCTAGTTGCTCCCATCTGCAGAGC 1002
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seq_documentation_block:

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; Sequence 1, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 328 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-680-514-1

alignment_scores:
Quality: 1677.00 Length: 328
Ratio: 5.113 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
us-09-680-514-4 x US-09-680-514-1 ..

Align seg 1/1 to: US-09-680-514-1 from: 1 to: 328

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1 SerProAlaProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
114 TGACTCCCATGCTTCACAGCAGTGTGCCAGTGTGCCAGAGTTCCACC 163
17 gaspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHis 34
164 CTTTGCTACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 213
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAACCCAGATGGAGAGACCAAGGCACAGACATCTTGGGAGCAGT 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAla 67
264 GACCCCTCTGCTGGAGGAGTGTATGTCAGCAGCGGGGACAACTGGG 313
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314 CTTCCTCTCATCCTCGCGGAGCTTCTGGACAGTCCGCTCCTC 363
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84 hrCysLeuSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
|||||
364 CTGGGGCCCTGCAGAGCTCTTGGAAACCAGCTTCTCCACAGGGCAG 413
|||||
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
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414 GACCACAGCTCACAAGATCCCAATGCCATCTTCTGAGCTTCAACACC 463
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117 gThrThraHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
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464 TGCTCCGAGGAAAGTGGTTCCTGTGATGCTGTAGGAGGCTCCACCCTC 513
|||||
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlySerThrLeu 150
|||||
514 TGCCTACGCGCGGGCCCAACATATCGCGCCTCGAGTCTTACCACAGAGCTT 563
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151 CysValArgArgAlaProThrTyrArgAlaSerSerLeuProGlnSerPh 167
|||||
564 CCTTTTAAAGCTTAGAGCAAGTGGAGAGATCCAGGGCGATGCGCGAG 613
|||||
167 eLeuLeuLysSerLeuGluGlnValArgLysIleGlnGlyAspGlyAla 184
|||||
614 CGCTCCAGGAGAACTGTGCCACCTACAAAGCTGTGCCACCCGAGGAG 663
|||||
184 laLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProGluGlu 200
|||||
664 CTGTGTCTCGGACACTCTCTGGGATCCCTGGGCTCCCTCGAGCAG 713
|||||
201 LeuValLeuLeuGlyHisSerLeuGlyIleProThrPalProLeuSerSe 217
|||||
714 CTGCCCCAGCAGCCCTGCGAGCTGGCAGGCTGCTTGAGCCAACTCCATA 763
|||||
217 rCysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHis 234
|||||
764 GCGGCTTTCTCTACCAGGGCTCTGCGAGGCTTGGAGGATCTCC 813
|||||
234 erGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSer 250
|||||
814 CCCGAGTTGGTCCACCTTGGACACACTGCGAGCTGGAGCTCGCGGACTT 863
|||||
251 ProGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPh 267
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864 TGCCACCACTATCGGAGCAGATGGAGAACTGGGAATGGCCCTCGCC 913
|||||
267 eAlaThrThrIleThrGlnGlnMetGluGluLeuGlyMetAlaProAla 284
|||||
914 TGACAGCCACCCAGGTGCCATGCGGCTTCGCTCTGCTTCCAGCGC 963
|||||
284 euGlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArg 300
|||||
964 CGGAGAGGGGTCCTAGTTGGCTCCCATCTGCAGAGCTTCTCGGAGGT 1013
|||||
301 ArgAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluVa 317
|||||
1014 GTCGTACGGCTTCTAGCCACCTTGGCCAGCC 1047
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317 lSerTyrArgValLeuArgHisLeuAlaGlnPro 328
|||||
seq_name: US09680514.pep:US-09-680-514-2

seq_documentation_block:
; Sequence 2, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
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414 GACCACAGCTCACAAGATCCCAATGCCATCTCTGAGCTTCCACACC 463
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117 gthrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
|||||
464 TCCTCCGAGGAAGTGGTTCCTGATGCTGTGAGGGTCCACCTC 513
|||||
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
|||||
514 TCGCTACGG..... 522
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151 CysValArgSerGlyGlySerGlyGlySerGlyGlySerGlyGlySerG 167
523 .....CGGGCCCAACATATCGCGCTCGAGTCTACACAGAGCTTCC 565
|||||
167 yGlyGlyArgAlaProThrTyArgAlaSerSerLeuProGlnSerPheL 184
|||||
566 TTTTAAAAAGCTTAGAGCAAGTAGAGAGATCCAGGGGATGGCCAGCG 615
|||||
184 euLeuLysSerLeuGluGlnValArgLysIleGlnGlyAspGlyAlaAla 200
|||||
616 CTCAGGAGAGCTGTGTGCCACCTACAGCTGTGCCACCCCGAGAGCT 665
|||||
201 LeuGlnGluLysLeuGlyAlaThrTyLysLeuGlyHisProGluGluLe 217
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666 GGTGCTGCTCGACACTCTCTGGGCATCCCTGGCTCCCTGAGCAGCT 715
|||||
217 uValLeuLeuGlyHisSerLeuGlyIleProTrpAlaProLeuSerSerC 234
|||||
716 GCCCAGCCAGCCCTGAGCTGGAGGCTGTTGAGCCAACTCATAGC 765
|||||
234 ysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSer 250
|||||
766 GCCTTTTCTCTACACGGGCTCTCGAGGCCCTGGAAGGATCTCCCC 815
|||||
251 GlyLeuPheLeuTyGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerPr 267
|||||
816 CGAGTTGGTCCCACCTTTGGACACTCCAGCTGGAGCTGCCCGACTTTG 865
|||||
267 oGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPheA 284
|||||
866 CCACCACCATCTGCAGCAGATGGAGAACTGGGAATGGCCCTGCCCTG 915
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284 laThrThrIleTrpGlnMetGluGluLeuGlyMetAlaProAlaLeu 300
|||||
916 CAGCCACCCAGGGTGCATCGCGCCTTCGCTCTGCTTTCCAGCGCGC 965
|||||
301 GlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgAr 317
|||||
966 GGCAGGAGGGTCTAGTTGCTCCATCTGCAGAGCTTCTCGGAGGTGT 1015
|||||
317 gAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluValS 334
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1016 CGTACCGGTTCTAGCCACCTTGCCAGCCC 1047
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334 erTyArgValLeuArgHisLeuAlaGlnPro 344
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seq_name: US09680514.pep:US-09-680-514-39

seq_documentation_block:
; Sequence 39, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotani, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
```

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119 pGlnGlnMetGluGluLeuGlyMetAlaProAlaLeuGlnProThrGlnG 136
929 GTGCCATCCCGCTTCCCTCTCTCCAGCGCCGCGGAGGAGGTC 978
136 lYAlaMetProAlaPheAlaSerAlaPheGlnArgArgAlaGlyGlyVal 152
979 CTAGTGTGCTCCCATCTGCAGAGCTTCTCGAGGTGTCGTACCGGTCT 1028
153 LeuValAlaSerHisLeuGlnSerPheLeuGluValSerTyrArgValLe 169
1029 ACGCCACTTCCCGAGCCC 1047
169 uArgHisLeuAlaGlnPro 175
seq_name: US09680514.pep:US-09-680-514-40

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seq_documentation_block:
; Sequence 40, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;                Shiotsu, Yukimasa
;                Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION DATE: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-680-514-40

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alignment_scores:
Quality: 835.00 Length: 359
Ratio: 3.422 Gaps: 13
Percent Similarity: 67.967 Percent Identity: 56.825

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alignment_block:
us-09-680-514-4 x US-09-680-514-40 ..
Align seg 1/1 to: US-09-680-514-40 from: 1 to: 332

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64 AGCCCGGCTCCTCCTGCTGTGACCTCCGAGTCTCTAGTAACTGCTTCG 113
1 SerProAlaProProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
114 TGACTCCCATGCTCTTCACAGCAGACTGACCCAGTGCACAGAGGTTCCAC 163
17 gaspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTTGTGCTACACCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 213
34 roleuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAACCCAGATGGAGGAGACCAAGGCACAGACATTTCTGGAGCAGT 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67
264 GACCCCTCTCTGAGGGAGTGATGGCAGCAGCGGGACAACTGGGACCCA 313
67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProt 84
314 CTTGCTCTCTCATCCCTCCTGGGCAGCTTTCTGGACAGGTCCTCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTTGGGGCCCTGCAGAGCCTCCTTTGGAACCCAGCTTCTCCACAGGCGAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyAr 117
414 GACCACAGCTCAAGAGTCCCAATGCCATCTTCTGAGCTTCCAGCTTCCA 463
117 gThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCTCCGAGGAAAGTTCGCTTCTGATGCTTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
514 TGGGTACGGCGGCGCCCAACATATCGCGCTCGAGTCTACACAGAGCTT 563
151 CysValArgArgAlaProProThrThrAlaValProSerArgThrSerLe 167
564 CCTTTTAAAGCTTAGACCAAGTGAGGAAGATCCAGGCGGATGGCCGAG 613
167 uValLeuThrLeuAsnGluLeuProAsnArgThrSerGly.....L 181
614 CGTCCAGGAGAGAGCTGTGTGCCACCTACAAGCTGTGCCACCCCGAGGAG 663
181 euLeuGluThrAsnPheThrAlaSerAlaArg..... 191
664 CTGGTCTGCTCGGACACTCTCTGGGCATCCCTCGGCTCCC..... 705
192 .....ThrThrGlySerGlyLeu...LeuLysTrpGlnGlnGlyPheAr 205
706 .....CTGAGCAGCTGCCCCAGCAGGCGCTG...CAGC 736
205 gAlaLysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnI 222
737 TGGCAGGCTCTTGAGCCAACTCCATAGCGGCTTTTCTCTTCTACAGG... 784
222 leProGlyTyrLeuAsnArgIleHisGluLeuLeu.AsnglyThrArgGl 238
785 .....GGCTCTCGAGGCCCTCGGAGGATCTCC..... 814
238 yLeuPheProGlyProSerArgThrLeuGlyAlaProAspIleSerS 255
815 .....CCGAGTTGG 823
255 erGlyThrSerAspThrGlySerLeuProProAsnLeuGlnProGlyTyr 271
824 GTCCCACTTGGACACACTGCAGCTGGAGTGCCTGCCGACTTTGCGCACCC 873
272 SerProSerProThrHis.....ProPr 279
874 ATCTGGCAGCAGATGGAAGAACTGGGAATGGCCCTGCGCTGCAGCCAC 923

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213 Glyasp.....GlyAlaAlaLeuGlnGluGly 228
397 GCTGGTTC AAGAGGAGCTCTCAGGCGCCCAAGAGGAGAGCAGCTGT 348
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221 sLeuCysAlaThrTyrLysLeuCysHisProGluGluLeuValLeuLeuG 238
347 CCAGAAGACTCCCGCAGGAGGATGAGAGCAAGTGGGTCCCACTTGTCC 298
    :::::||||  ::  |||  ::  |||  ::
238 lyHisSerLeu.....GlyIleProThrAlaProLeuSer 249
297 CCGTGTGTCATCACTCCCTCCAGCAGCAAGGGTCACTGCTCCCAAGATGT 248
    |||  ::  |||  ::  |||  ::
250 SerCysProSerGlnAlaLeuGlnLeuAlaGly..... 260
247 CCTGTGCTGGTCTCCTCCATCTGGGT 220
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261 ...CysLeuSerGlnLeuHisSerGly 268

seq_name: US09680514.pap:US-09-680-514-9

seq_documentation_block:
; Sequence 9, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;                Shioitsu, Yukimasa
;                Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESS: NIXON & VANDERHVE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:

US-09-680-514-9

alignment_scores:
Quality: 87.50 Length: 264
Ratio: 0.803 Gaps: 15
Percent Similarity: 41.288 Percent Identity: 26.894

alignment_block:
us-09-680-514-4/rev x US-09-680-514-9

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654 GTGGCACAGCTTGTTAGTGGCGCACAGCTT..... 625
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103 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 119
624 ....CTCTGGAGCGCTGGCCATCGCCCTGGATCTTCTCCTCAGTGCCT 579
::: ||| ::| ||||| |||||
119 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 135
578 AAGCTTTTAAAGGAAGCTGTGTGTAGACTCGAGGC..... 541
||| |||
136 .....ArgGlyLysValArgPhe 141
540 .....GCGATAGTTGGCGCCGCCGTACGCAGA 512
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142 LeuMetLeuValGlySerThrLeuCysValArg..... 153
511 GGGTGGACCTCTACAGCATCAG.....GAAAGCGACCTT..... 475
::: ||| ::| ||||| |||||
154 .ArgAlaProThrTyrArgAlaSerSerLeuProGlnSerPheLeuLeuL 170
474 ..TCCTCGGAGCAGGTGTGAAGCTCAGGAAGATGGCATGGATCCTT 427
||| ||||| ||| |||
170 ysSerLeuGlnValArgLysIleGlnGlyAsp..... 181
426 GTGAGCTGTGTCTGCTGCTGTGGAGAGCTGTTCAGAGGAGCTCT 377
||| ||||| ::| |||||
182 .....GlyAlaAlaLeuGlnLysLeuCysAlaThrTyrLysLe 195
376 CGAGGGCCCCAAGAGGAGGAGGACCTCTCCAGAAAGCTGCCAGGAGG 327
||| ||||| ||| ::| |||||
195 ucysHisProGlnGluLeuValLeuLeuGlyHisSerLeu..... 208
326 GATGAGAGCGAAGTGGTCCCGTGTCTCCCGTGTGCATCATCCCTC 277
::: ||||| ||| ::| |||||
209 .....GlyLeProThrAlaProLeuSerSerCysProSerGlnAlaLeu 223
276 CAGCAGAAGGCTACTGTCTCCAGAAATCTCTGCTGCTGTGTCTCTCCA 227
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224 GlnLeuAlaGly.....CysLeuSerGlnLeuHi 233
226 TCTGGGT 220
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233 sSerGly 235

seq_name: US09680514.pep:US-09-680-514-5

seq_documentation_block:
; Sequence 5, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESSES:
; ADDRESSSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
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;
APPLICATION NUMBER: JP P.HEI.7-102625
FILING DATE: 26-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Crawford, Arthur R.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 249-89
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-816-4000
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 349 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-680-514-5

alignment_scores:
Quality: 82.50 Length: 253
Ratio: 0.778 Gaps: 15
Percent Similarity: 41.897 Percent Identity: 27.273

alignment_block:
us-09-680-514-4/rev x US-09-680-514-5 ..
Align seg 1/1 to: US-09-680-514-5 from: 1 to: 349

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50 CysProGluValHisPro.....LeuProThrProValLe 61
788 AGCCCT.....GGTAGAGAAAGCGCGCTATGCAG 757
||| ||| ||| ||| ||| |||
61 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 77
756 TTGGCTCAAGCAGCTGCAGCTGCAGGCGCTGGCTGGGCA..... 715
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78 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 90
714 .....GCTGCTCAGGAGGCCGAGGGAT..... 691
||||| ::| |||
90 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 107
690 .....GCCAGAGAGTGTCCGAGCAGCAGCAGCTCCTCGG 655
107 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 123
654 GTGGCACAGCTTGTTAGTGGCACACAGCTT..... 625
::: ||| ::| ||||| |||||
124 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 140
624 ....CTCTGGAGCGCTGGCCATCGCCCTGGATCTTCTCCTCAGTGCCT 579
::: ||| ||| ||| ||| ||| |||
140 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 156
578 AAGCTTTTAAAGGAAGCTGTGTGTAGACTCGAGGC..... 541
||| |||
157 .....ArgGlyLysValArgPhe 162
540 .....GCGATAGTTGGCGCCGCCGTACGCAGA 512
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163 LeuMetLeuValGlySerThrLeuCysValArg..... 174
511 GGGTGGACCTCTACAGCATCAG.....GAAAGCGACCTT..... 475
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376 GCAGGGCCCAAGAGAGAGACGGACCTGTCCAGAAAGCTCCCCAGGAGG 327
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216 uCysHisProGluGluLeuValLeuLeuGlyHisSerLeu..... 229
336 GATGAGAGGCAAGTGGGTGCCAGTGTGCCCGCTGCCATCATCCCTC 277
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230 .....GlyLeuProTrpAlaProLeuSerSerCysProSerGlnAlaLeu 244
276 CAGCAGAAAGGCTCACTGCTCCAGAAATGCTCTGTGGCTGTGCTCTCC 227
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226 TCTGGGT 220
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seq_name: US09680514.pep:US-09-680-514-40

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seq_documentation_block:
; Sequence 40, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-680-514-40

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alignment_scores:
Quality: 56.00 Length: 328
Ratio: 0.412 Gaps: 18
Percent Similarity: 41.463 Percent Identity: 23.171

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965 CGCGCGTGTGAACACGACGAGCGGAAGG.....CCGCATGGCACC 928
    ::| ::| ||| |||
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
927 CTGGGTGGGCTGCAGGCGAGGCGCATTCACAGT...CTTCCA..... 887
    || ||| ||||| |||||
34 ro.....LeuProThrProValLeuProAlaVal 44
886 .....TCTGCTGCCAGATGGTGGCAAAAGTCGGCGACGTCCAGCTGC 843
    ||| ::||| |::| |::|
45 AspPheSerLeuGlyGluTrpLysThrGln.MetGluGluThrLysAlaG 61
842 AGTGTGTCCAAGGTGGGACCCCAACTCGGGGAGATCCCTTCCAGGGCCTG 793
    || ::| |||::|::| ||| ::|
61 InAspIleLeuGlyAlaValThrLeuLeuGluGlyValMetAlaAla 77
792 CAGGAGCCCTGTGTAGAGAAAGCGCGCTATGGAGTTGGTCAAGCAGC 743
    ::| ||| ::| ::| |||::|::|
78 ArgGlyGlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSe 94
742 CTGCCAGCTGCAGGGCCTGGCTGGGCA..... 715
    : |||::|::| ||| |||||
94 rGlyGlnValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeuGlyThrG 111
714 .....GCTGCTCAGGGAGGCCCGGCGGATGCC 688
    ::|||::|::| ::||| ::|||
111 InLeuProGlnGlyArgThrThrAlaHisLysAspPro...AsnAla 126
687 CAGAGAGTGTCCGAGCAGCAGCACCTCTCGGGGTGGCAGAC..... 646
    ::||| ||||| ||| ||| ::|||
127 IlePheLeuSerPheGlnHisLeuLeuArgGlyLysValArgPheLeuMe 143
645 .CTGTAGTGGCACACAGCTTCTCTGTGGAGCGCTGCGCCATCGCCCTGG 597
    ||||| |||||::| ||| ::|||::| |||||
143 tLeuValGlyGlySerThrLeuCysValArgArg.AlaProProThrThr 159
596 .....ATCTTCTCTCACTTGCTCTAAGCTTTTAA 568
    ::||| ::||| ::|||
160 AlaValProSerArgThrSerLeuValLeuThrLeuAsnGluLeu...Pr 175
567 AAGGAAGCTCTGTGTAGACTCGAGGCGGATATGTTGGCGCGCGCGTAA 518
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175 oAsnArgThrSerGlyLeuLeuGluThrAsnPheThrAlaSerAlaArgT 192
517 CGCAGAGGTGGACCCCTCTCTACAAGCATCAGGAACGACACTTTCCTCGG 468
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192 hr.ThrGly..... 194
467 AGCAGGTGTGGAAAGCTCAGGAAGATGGCATTTGGGATCCTTGTGAGCTGT 418
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417 GGTCTGCTGCTGTGGAGGAGCTGTCCAGGAGGCTCTGCAGGGGCC 368
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201 .....GlnGlnGlyPheArgAlaLysIleProGlyLeu 211
367 CAAGGAGGAGACGGACCTGTCCAGAAAGCTGCCCCAGGA..... 329
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212 LeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyTyrLeuAsnAr 228
328 .....GGGATGAGAGGC.....A 316
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228 gIleHisGluLeuLeuAsnGlyThrArgGlyLeuPheProGlyProSerA 245

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315 AGTGGGTCCAGTTGTCCTCCCGTGTGCTGCATCCTCCCTCCAGCAGAGGG 266
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245 r9ArgThrLeuGlyAlaProAspIleSerSerGlyThrSerAspThrGly 261
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265 TCACTGTCTCCAGAA.....TGTCCTGTGCTGCTGCTCTCC 231
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OM of: us-09-680-514-6 to: US09680514.pep:* out_format : pfs
Date: Apr 8, 2002 2:23 PM
About: Results were produced by the GenCore software, version 4.5,
Copyright (c) 1993-2000 Compugen Ltd.

Command line parameters:
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-DB=US09680514.pep -OUT=align_6_pep.res -GAPOP=12.000
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-NO_XLPXY -THREADS=1

Search information block:
Query: us-09-680-514-6
Query length: 1083
Database: US09680514.pep:*
Database sequences: 24
Database length: 2736
Search time (sec): 3.220000

score_list:	Sequence	Strd Orig	Zscore	EScore	Len	Documentation
	US09680514.pep:US-09-680-514-7	1835.00	1291.17	3.1e-69	361	Sequence 7, Applicat
	US09680514.pep:US-09-680-514-9	1813.00	1275.48	2.3e-68	365	Sequence 9, Applicat
	US09680514.pep:US-09-680-514-5	1753.00	1233.29	5.4e-66	349	Sequence 5, Applicat
	US09680514.pep:US-09-680-514-2	1743.00	1226.41	1.3e-65	340	Sequence 2, Applicat
	US09680514.pep:US-09-680-514-3	1721.00	1210.71	9.9e-65	344	Sequence 3, Applicat
	US09680514.pep:US-09-680-514-1	1661.00	1168.54	2.3e-62	328	Sequence 1, Applicat
	US09680514.pep:US-09-680-514-4	851.00	599.11	2.3e-30	175	Sequence 39, Applic
	US09680514.pep:US-09-680-514-39	819.00	571.23	4.2e-29	332	Sequence 40, Applic
	US09680514.pep:US-09-680-514-3	90.50	54.24	2.19	344	Sequence 9, Applicat
	US09680514.pep:US-09-680-514-9	90.50	53.76	2.17	365	Sequence 9, Applicat
	US09680514.pep:US-09-680-514-2	86.50	51.50	2.96	340	Sequence 2, Applicat
	US09680514.pep:US-09-680-514-7	86.50	51.01	2.92	361	Sequence 7, Applicat
	US09680514.pep:US-09-680-514-1	83.50	48.95	3.92	328	Sequence 1, Applicat
	US09680514.pep:US-09-680-514-5	82.50	48.45	3.85	349	Sequence 5, Applicat
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	US09680514.pep:US-09-680-514-26	45.00	0.00	301.11	9	Sequence 26, Applicat
	US09680514.pep:US-09-680-514-31	44.00	0.00	338.75	8	Sequence 31, Applicat
	US09680514.pep:US-09-680-514-43	44.00	0.00	338.75	8	Sequence 43, Applicat
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	US09680514.pep:US-09-680-514-38	34.00	38.97	152.56	16	Sequence 42, Applicat
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seq_name: US09680514.pep:US-09-680-514-7
seq_documentation_block:
; Sequence 7, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHIVE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-680-514-7

alignment_scores:
Quality: 1835.00 Length: 361
Ratio: 5.083 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
us-09-680-514-6 x US-09-680-514-7
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651 GCTCCAGGAGAGCTGTGTGCCACTACAAGCTGTGACCCCGGAGAGC 700
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; Sequence 9, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-680-514-9

alignment_scores:
Quality: 1813.00 Length: 365
Ratio: 5.022 Gaps: 2
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101 GTAAACTGCTTGTGACTCCCATGCTCTTCCACAGCAGACTGAGCCAGTGC 150
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seq_documentation_block:
; Sequence 5, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4100
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 349 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-680-514-5

alignment_scores:
Quality: 1753.00 Length: 361
Ratio: 5.023 Gaps: 1
Percent Similarity: 96.676 Percent Identity: 96.676

alignment_block:
us-09-680-514-6 x us-09-680-514-5 ..
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205 aLeuGlnLysLeuCysAlaThrTyrLysLeuCysHisProGluGluL 222
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701 TGGTCTCTCGGACACTCTCTGGGATCCCTGGGCTCCCTCGAGGAGC 750
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222 euValLeuLeuGlyHisSerLeuGlyIleProTrpAlaProLeuSerSer 238
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751 TGCCCCAGCCAGGCTCGAGCTGGCAGGCTGTGAGCCAACTCCATAG 800
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239 CysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSe 255
|||||
801 CGGCTTTTCTCTACAGGGGCTCTGCAGGCGCTGGAGGATCTCC 850
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255 rGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerP 272
|||||
851 CCGAGTTGGTCCACCTGGACACTGAGCTGGAGCTGGCGGCTTTC 900
|||||
272 roGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPhe 288
|||||
901 GCCACCACTCTGGCAGCAGATGGAAGAACTGGGAATGGCCCTCGCCT 950
|||||
289 AlaThrThrIleTrpGlnMetGluLeuGlyMetAlaProAlaLe 305
|||||
951 GCAGCCACCCAGGGTGCATGCGGGCTTTCGCTCTGCTTCCAGCGCC 1000
|||||
305 uGlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgA 322
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1001 GGGCAGGAGGGTCTAGTTGCTCTCCATCTGCAGAGCTTCTTGGAGGTG 1050
|||||
322 rgAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluVal 338
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1051 TCGTACCGCGTTCTACGCCACCTTGCCCGAGCCC 1083
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339 SerTyrArgValLeuArgHisLeuAlaGlnPro 349
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seq_name: US09680514.pap:US-09-680-514-2

seq_documentation_block:
; Sequence 2, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-680-514-2

alignment_scores:
Quality: 1743.00 Length: 340
Ratio: 5.126 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
us-09-680-514-6 x US-09-680-514-2 ..

Align seg 1/1 to: US-09-680-514-2 from: 1 to: 340

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|||||
1 SerProAlaProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
|||||
114 TGACTCCCTGCTCTTCCAGCAGACTGAGCCAGTGCAGAGGTTCCACC 163
|||||
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
|||||
164 CTTTGGCTACACCTGTCTGCTGCTGCTGTGGACTTTAGCTTGGGAGAA 213
|||||
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
|||||
214 TGGAAACCCAGATGGAGGAGACCAAGGCCAGGACATCTTCTGGAGCAGT 263

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51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67
264 GACCCTCTCTGGAGGAGTGGAGGACACGGGACAACTGGACCCA 313
67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProT 84
314 CTTCGCCCTCATCCCTCCTGGGGAGCTTTCTGGACAGTCCGCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTTCGGGCCCTGCAGAGCCTCTTGGAAACCAGCTTCTCCACAGGCGAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
414 GACCACAGCTCACAAAGATCCCAATGCATCTTCTGAGCTTCCAACACC 463
117 gThrThraHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCTCCGAGGAAAGTGGTTTCTGTATGCTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
514 TGCCTCAGGGGTGGCGTCTGGAGGTGGTCCCGAGGGGTCTAGAGC 563
151 CysValArgGlyGlySerGlyGlyGlySerGlyGlySerArgAl 167
564 ACCAACATATCGCGCTCGAGTCTACACAGAGCTTCTTTTAAAGCT 613
167 aProThrTyrArgAlaSerSerLeuProGlnSerPheLeuLeuLysSerL 184
614 TAGAGCAAGTGAGGAAGATCCAGGCGGATGGCGAGGCTCCAGGAGAAG 663
184 euGluGlnValArgLysIleGlnGlyAspGlyAlaAlaLeuGlnGluLys 200
664 CTGTGTGCCACTACAGCTGTGCCACCCGAGGAGCTGGTGTGCTCGG 713
201 LeuCysAlaThrTyrLysLeuCysHisProGluGluLeuValLeuLeu 217
714 ACATCTCTGGGCATCCCTGGGCTCCCTCGAGCAGCTGCCCGAGCCAGG 763
217 yHisSerLeuGlyIleProIrrAlaProLeuSerSerCysProSerGlnA 234
764 CCCTGCAGCTGGCAGGCTGTGTAGCCCACTCCATAGCGGCTTTTCTC 813
234 laLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSerGlyLeuPheLeu 250
814 TACCAGGGCTCTGCAGGCGCTGGAGGATCTCCCGGAGTTGGGTCC 863
251 TyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerProGluLeuGlyPr 267
864 CACCTTGGACACACTGCAGCTGGAGCTCGCGGACTTTGCCACCACTCT 913
267 oThrLeuAspThrLeuGlnLeuAspValAlaAspPheAlaThrThrIle 284
914 GGCACAGATGGAAACTGGGAATGGCCCTGCCCTGCAGCCCAACCCAG 963
284 rpGlnGlnMetGluGluGlyMetAlaProAlaLeuGlnProThrGln 300
964 GGTGCCATGGCGGCTTCGGCTCTGCTTTCCAGCGCGGCGAGAGGGGT 1013
301 GlyAlaMetProAlaPheAlaSerAlaPheGlnArgAlaGlyGlyVa 317
1014 CCTAGTTGCTCCCATCTGCAGAGCTTCTGGAGGTGTCGTCACCGCGTTC 1063
317 lLeuValAlaSerHisLeuGlnSerPheLeuGluValSerTyrArgValL 334
1064 TACGCCACCTTGCACGCC 1083
334 euArgHisLeuAlaGlnPro 340

seq_name: US09680514.pep:US-09-680-514-3

seq_documentation_block:
; Sequence 3, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukihiko
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-680-514-3

alignment_scores:
Quality: 1721.00 Length: 344
Ratio: 5.062 Gaps: 2
Percent Similarity: 98.837 Percent Identity: 98.837

alignment_block:
us-09-680-514-6 x US-09-680-514-3

Align seg 1/1 to: US-09-680-514-3 from: 1 to: 344

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1 SerProAlaProProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17

114 TGACTCCCATGCTCTCACAGCAGACTGAGCCAGTGCAGAGGTTCAACC 163
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34

164 CTTTGCCTACACCTGCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 213
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50

214 TGGAAACCCAGATGGAGGAGACCAAGCAGGACATCTCTGGGAGCAGT 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67


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314 CTTGCTCTCATCCTCTCTGGGCGAGCTTTCTGGACAGGTCGGTCTCTCT 363
|||||
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
|||||
364 CTTGGGGCCCTGCAGAGCCTCTTGGACCCAGCTTCTCCACAGGGCAG 413
|||||
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
|||||
414 GACCACAGCTCACAGGATCCCATGCTCTCTGAGCTTCCACACC 463
|||||
117 gThrThrAlaHisLysaspProAsnAlaIlePheLeuSerPheGlnHisL 134
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464 TGCTCCGAGGAAGGTGCTTCTGATGCTGTGTAGGAGGCTCCACCTC 513
|||||
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
|||||
514 TGCTCAGGGGTGGGTTCTGGAGGTGGTTCGGAGGGGGTTCTAGAGC 563
|||||
151 CysValArg.....ArgAl 155
564 ACCACATATCGCCCTCGAGTCTACCACAGAGCTTCTTTAAAGCT 613
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155 aProThrTyrArgAlaSerSerLeuProGlnSerPheLeuLeuLysSerL 172
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614 TAGACCAAGTCAGGAAGATCCAGGGCGATGCGCAGCGCTCCAGGAGAAG 663
|||||
172 euGlnGlnValArgLysIleGlnGlyaspGlyAlaAlaLeuGlnGluLys 188
|||||
664 CTGTGTGCCACTACAGCTGTGCCACCCGAGGAGCTGGTGTCTCGG 713
|||||
189 LeuCysAlaThrTyrLysLeuCysHisProGluGluLeuValLeuLeuL 205
|||||
714 ACCTCTCTGGGCATCCCTGGGCTCCCTGAGCAGCTGCCCGCCAGCAGG 763
|||||
205 yHisSerLeuGlyIleProThrAlaProLeuSerSerCysProSerGlnA 222
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764 CCTGTGACGTGGCAGGTGTGTGACCAACTCTCATAGCGGCTTTTCTCT 813
|||||
222 laLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSerGlyLeuPheLeu 238
|||||
814 TACACAGGGCTCTGCGAGGCCCTGGAGGATCTCCCGGAGTTGGGTCC 863
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239 TyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerProGluLeuGlyPr 255
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864 CACCTTGGACACACTGCAGCTGGAGCTGCGGACTTTGCCACCACTCT 913
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255 oThrLeuaspThrLeuGlnLeuaspValAlaaspPheAlaThrThrIleT 272
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914 GGCACGAGATGGAAGAACTGGGAATGGCCCTGCGCTGCAGCCCACTCCAG 963
|||||
272 rpGlnGlnMetGluGluLeuGlyMetAlaProAlaLeuGlnProThrGln 288
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964 GGTGCCATGGCGGCTTCGCTCTGCTTTCAGCGCCGGGCGAGGAGGT 1013
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289 GlyAlaMetProAlaPheAlaSerAlaPheGlnArgArgAlaGlyGlyVa 305
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1014 CCTAGTTGGCTCCCATCTGCAGAGCTTCTCGAGGTGTCTGACCGGCTTC 1063
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305 lLeuValAlaSerHisLeuGlnSerPheLeuGluValSerTyrArgValL 322
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1064 TAGCCCACTTGGCCAGCC 1083
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322 euArgHisLeuAlaGlnPro 328
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seq_name: US09680514.pep:US-09-680-514-39

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seq_documentation_block:
; Sequence 39, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotzu, Yukimasa
; Konishi, Noboru
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TITLE OF INVENTION: NOVEL POLYPEPTIDES
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSER: NIXON & VANDERHVE P.C.
STREET: 1100 North Glebe Rd. 8th floor
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22201-4741
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,514
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/765,337
FILING DATE: <Unknown>
APPLICATION NUMBER: JP P.HEI.7-102625
FILING DATE: 26-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Crawford, Arthur R.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 249-89
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-816-4000
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-09-680-514-39

alignment_scores:
Quality: 851.00 Length: 173
Ratio: 5.065 Gaps: 0
Percent Similarity: 97.110 Percent Identity: 97.110

alignment_block:
us-09-680-514-6 x US-09-680-514-39 ..

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615 AGACCAAGTGAAGATCCAGGGCGATGGCGCAGCGCTCCAGGAGAAGC 664
|||||
19 uGluGlnValArgLysIleGlnGlyAspGlyAlaAlaLeuGlnGluLysL 36
|||||
665 TGTGTGCCACTACAGCTGTGCCACCCCGAGGAGCTGGTCTCTCGGA 714
|||||
36 euCysAlaThrTyrLysLeuCysHisProGluGlyLeuValLeuLeuGly 52
|||||
715 CACTCTCTGGGCATCCCTGGGCTCCCTGAGCAGCTGCCCGCCAGCCAGGC 764
|||||
53 HisSerLeuGlyIleProThrAlaProLeuSerSerCysProSerGlnAl 69
|||||
765 CCGCAGCTGGCAGCTGCTTGAAGCAACTCCATAGCGGCTTTTCTCT 814
|||||
69 aLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSerGlyLeuPheLeuT 86
|||||
815 ACCAGGGCTCTCTCAGCGCTTGAAGGATCTCCCGGAGTTGGGTCCC 864
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103 ThrLeuAspThrLeuGlnLeuAspAlaAlaAspPheAlaThrThrileTr 119
915 GCAGCAGATGAAGAACTGGATGGCCCTGCGCTGCAGCCACCCAGG 964
119 pGlnGlnMetGluGlnLeuGlyMetAlaProAlaLeuGlnProThrGlnG 136
965 GTGCGATGCGCGCTTCCCTCTGCTTCCAGCGCGCGGAGGAGGGTC 1014
136 lYalaMetProAlaPheAlaSerAlaPheGlnArgAlaGlyGlyVal 152
1015 CTAGTGTGCTCCCATCTGCAGAGCTTCTCGAGGTGTCGTACCGGTCT 1064
153 LeuValAlaSerHisLeuGlnSerPheLeuGluValSerTyArgValle 169
1065 AGGCACCTTGCCCGAGCCC 1083
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seq_name: US09680514.pep:US-09-680-514-40

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seq_documentation_block:
; Sequence 40, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;           Shiotzu, Yukimasa
;           Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-680-514-40

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alignment_scores:
Quality: 819.00      Length: 371

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Ratio: 3.357      Gaps: 14
Percent Similarity: 65.768      Percent Identity: 54.987
alignment_block:
us-09-680-514-6 x US-09-680-514-40
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1 SerProAlaProProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
114 TGACTCCCATGTCTTCACAGCAGACTGAGCCAGTCCCGCAGAGTTCCACC 163
17 gaspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTGGCTACACCTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 213
34 roleuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAAACCCAGATGGAGGAGACCAAGGCACAGCAGCATTTCTGGAGCAGT 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67
264 GACCCCTTCTGCTGGAGGAGTGTATGGCAGCAGCGGGACAACTGGGACCCA 313
67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProt 84
314 CTTGGCTCCTCATCCCTCCTGGGCGAGCTTCTCGACAGGTCGCTCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTTGGGCGCTCGAGAGCTCCTTGGAAAGCCAGCTTCTCCACAGGCGCAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyAr 117
414 GACCACAGCTCACAGGATCCCAATGCCATCTTCTGAGCTTCCAGCTTCCACACC 463
117 gThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCTCCGAGGAAAGTGCCTTCTCTGATGCTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlySerThrLeu 150
514 TGCCTCAGGGGTGGCGGTCTCTGAGGTGGTTCGAGGAGGGGTCTAGAGC 563
151 CysValArg.....ArgAl 155
564 ACCAACATATCGCGCTCGAGTCTACACAGAGCTTCTCTTTTAAAGCT 613
155 aProProThrThrAlaValProSerArgThrSerLeuValLeuThrLeuA 172
614 TAGACCAAGTGAGGAGATCCAGGGCGATGGCCAGCGCTCCAGGAGAAG 663
172 snGluLeuProAsnArgThrSerGly.....LeuLeuGluThrAsn 185
664 CTGTGTGCCACCTACAAGCTGTGCCACCCCGAGGAGTGTGTCTGCTCGG 713
186 PheThrAlaSerAlaArg.....ThrThrGl 194
714 ACACCTCTGTGGCATCCCTGGGCTCCC..... 741
194 ySerGlyLeu...LeuLysTrpGlnGlnGlyPheArgAlaLysIleProG 210
742 ..CTGAGCAGCTGCCCGCAGCGAGGCGCTG...CAGCTGCAGGCTCTTG 786
210 lYLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyTyrLeu 226
787 AGCCAACTCATAGGCGCTTTTCTCTCTACCAGG.....GGCT 824
227 AsnArgIleHisGluLeuLeu..AsnGlyThrArgGlyLeuPheProGlyP 243
825 CTTGAGGCGCTTGGAGGAGTCTCCC..... 850

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851 ..... CCGAGTTGGTCCACACCTTGGAC 873
260 ThrGlySerLeuProAsnLeuGlnProGlyTyrSerProThr 276
874 ACATGTCAGCTGGAGCTGGCGGACTTTGCCACACCATCTGGCAGCAGAT 923
276 rHis.....ProProThrGly..... 281
924 GGAAGAACTGGGATGGCCCTGCGTCGACCCACCCAGGTCCTAGTCGC 973
282 ..GlnTyrThrLeuPheProLeuProThrLeuProThrProValVal 297
974 CGGCTTCGCTCTGCTTCCAGCGCGGCGGAGGAGGCTCTAGTTGCC 1023
298 GlnLeuHisProLeuLeuProAspProSer.....AlaProThrProT 312
1024 TCCATCTGCAGAGCTCTCTGGAGGTGCTGACCGCGTTCTACGCCACCT 1073
312 hrProThrSerProLeuLeuAsnThrSerTyrThrHisSerGlnAsnLe 328
1074 TGCCCGAG 1080
328 userGln 330

seq_name: US09680514.pep:US-09-680-514-3

seq_documentation_block:
; Sequence 3, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
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US-09-680-514-3

alignment_scores:
  Quality: 90.50      Length: 266
  Ratio: 0.794      Gaps: 16
  Percent Similarity: 42.857      Percent Identity: 27.820

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Align seg 1/1 to: US-09-680-514-3 from: 1 to: 344

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29 CysProGluValHisPro.....LeuProThrProValLe 40
824 AGCCCT.....GGTAGAGGAAAGGCCGCTATGAG 793
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40 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 56
792 TTGGCTCAAGCAGCTGCCAGCTGCAGGCGCTGGCTGGGCA..... 751
|||||
57 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 69
750 .....GCTGCTCAGGGGAGCCAGGGAT..... 727
|||||
69 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 86
726 .....GCCAGAGAGTGTCCGACGACGACCCAGCTCTCTCGGG 691
|||||
86 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 102
690 GTGGCACAGCTGTAGGTGGCACACAGCTT..... 661
|||||
103 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyArgThrTh 119
660 ....CTCCTGGAGCGCTGCCCATCGCCATCTTCTCCTCATCTGTCT 615
|||||
119 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 135
614 AAGCTTTTAAAGGAAGCTCTGTGGTAGACTCGAGGCGCGATATGTGG 565
|||||
136 .....ArgGlyLysValArgPhe 141
564 .....TGCTCTAGAACCCCTCGGAAAC 542
|||||
142 LeuMetLeuValGlyGlySerThrLeuCysValArg.....SerGlyG 156
541 CACCTCCAGAACCCCGCCCTGACGACAGAGGTGGA.....CCCT 501
|||||
156 yGlySerGlyGlySerGlyGlySerGlyGlyArgAlaProT 173
500 CCTACACGACATCAG.....GAACGCACCTT.....TCCTCGGAG 466
|||||
173 hrTyrArgAlaSerSerLeuProGlnSerPheLeuLeuLysSerLeuGlu 189
465 CAGGTGTGGAGCTCAGGAAGATGGCATTTGGATCCTGTGTGAGTGTGG 416
|||||
190 GlnValArgLysIleGlnGlyAsp.....G 198
415 TCCGTGCTGTGGAGAGCTGGGTTCAGAGGCTCTGCAGGCGCCCA 366
|||||
198 yAlaAlaLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProG 215
365 AGGAGGACGACGCTGTCCAGAAAGCTGCCAGGAGGCGGATGAGAGGCA 316
215 luGluLeuValLeuGlyHisSerLeu.....GlyIle 226
315 AGTGGTCCCGAGTTGTCCTCGTGTGCTGCATCCTCCCTCCAGCAGAGGG 266
227 ProTrpAlaProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaG 243
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; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-680-514-7

alignment_scores:
    Quality: 86.50      Length: 264
    Ratio: 0.779       Gaps: 15
    Percent Similarity: 42.045      Percent Identity: 28.409

alignment_block:
us-09-680-514-6/rev x US-09-680-514-7 ..

Align seg 1/1 to: US-09-680-514-7 from: 1 to: 361

874 TGTCCAGGTGGACCAACTCGGGGAGATCCCTTCCAGGCGCTGCAGG 825
50 CysProGluValHisPro.....LeuProThrProValLe 61
824 AGCCCT.....GCTAGAGGAAAGCGCGCTATGGAG 793
61 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 77
792 TTGGCTCAGCAGCTGCCAGCTCGAGGCGCTGGTGGGCA..... 751
78 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 90
750 .....GCTGCTCAGGGAGCCCGAGGAT..... 727
90 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 107
726 .....GCCCAGAGAGTGCCGAGCAGCACCAGCTCCCTCGGG 691
107 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 123
690 GTGCACAGCTTGTAGTGGCGCACACACTT..... 661
124 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyArgThrTh 140
660 ....CTCTGGAGCGCTCGCCCTCGCCCTGGATCTTCTCTCACTTGTCT 615
140 AlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 156
614 AAGCTTTTAAAGAGAGCTCTGTGGTAGACTCGAGCGCGGATATGTGG 565
157 .....ArgGlyLysValArgPhe 162
564 .....TGCTCTAGA..... 556
163 LeuMetLeuValGlyGlySerThrLeuCysValArgGlyGlySerGl 179
555 .ACCCCTCCGGAACCACTCCAGAACCCGCCCTCGAGCAGAGGGTG 507
179 yGlyGlySerGlyGlySerArgAlaProThrTyrArgAlaSerSerL 196
506 GACCTCTACACAGCATCAGGAACGACCTTCTCTCG...GAGCAGGTG 460
196 euPro.....GlnSerPheLeuLeuLysSerLeuGluGlnVal 208
459 TTGGAAGCTCAGGAAGATGGCATGGATCCTTGTGAGCTGTGCTCTGC 410
209 ArgLysIleGlnGlyAsp.....GlyAlaAl 217
409 CCTGTGGAGGAAGTGGTTTCCAGGAGGCTCTGCAGGCGCCCAAGGAGG 360
217 aLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProGluGluL 234
359 AGACGGACCTGTCCAGAAAGCTGCCCGCAGGAGGATGAGAGCAAGTGGG 310
234 euValLeuLeuGlyHisSerLeu.....GlyIleProTrp 245
309 TCCAGTTGTCCCGTCTGCCATCACTCCCTCCAGCAAGAGGTCACTG 260
::: ||||| ||| :::::||||| |||
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246 AlaProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaGly..... 260
259 CTCCAGAAATGTCCTGTGCTGTGCTCTCCCTCCATCTGGGT 220
261 .....CysLeuSerGlnLeuHisSerGly 268

seq_name: US09680514.pep:US-09-680-514-1

seq_documentation_block:
; Sequence 1, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: YOKOI, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd., 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 28-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 328 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-680-514-1

alignment_scores:
    Quality: 82.50      Length: 252
    Ratio: 0.743       Gaps: 14
    Percent Similarity: 44.048      Percent Identity: 28.175

alignment_block:
us-09-680-514-6/rev x US-09-680-514-1 ..

Align seg 1/1 to: US-09-680-514-1 from: 1 to: 328

874 TGTCCAGGTGGACCAACTCGGGGAGATCCCTTCCAGGCGCTGCAGG 825
29 CysProGluValHisPro.....LeuProThrProValLe 40
824 AGCCCT.....GCTAGAGGAAAGCGCGCTATGGAG 793
40 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 56
::: ||||| ||| :::::||||| |||
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792 TTGGCTCAAGCAGCCCTGCAGCTGCAGGCGCTGGTGGGCA..... 751
      ::::: ||| ||| ::| |||||
57 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 69
      ::::: ||| ||| ::| |||||
750 .....GCTGCTCAGGGGAGCCAGGGAT..... 727
      |||||::: ||| ::| |||||
69 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 86
      ::::: ||| ||| ::| |||||
726 .....GCCAGAGAGTGTCCGAGCAGCAGCAGCTCCTCGG 691
      ::::: ||| ||| ::| |||||
86 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 102
      ::::: ||| ||| ::| |||||
690 GTGGCAGCAGCTGTAGTGGGCACACAGCTT..... 661
      ::| ||| ::| |||||
103 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 119
      ::::: ||| ||| ::| |||||
660 .....CTCCTGGAGCGCTGCCCATCGCCTGGATCTTCTCACTTGCCT 615
      ::::: ||| ||| ::| |||||
119 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 135
      ::::: ||| ||| ::| |||||
614 AAGCTTTTAAAGGAAGCTGTGTGTAGACTCGAGGCGCGATATGTTGG 565
      ||||| ::| ||| ::|
136 .....ArgGlyLysValArgPhe 141
      |||||
564 TGCTCTAGAACCCCTCCGGAACC.....ACCTCCAGAACGCCACCC 521
      ::| |||||
142 LeuMetLeuValGlyGlySerThrLeuCysValArgArgAlaProThrTy 158
      ::::: ||| ||| ::| |||||
520 TCACCGCAGAGGTGACCTCTCTACAGCATCAGGAAGCCACCTTCTCT 471
      ||||| ::| ||| ::|
158 rArgAlaSerLeuPro.....GlnSerPheLeuLeuLysS 171
      |||||
470 CG...GAGCAGGTGTGAAGCTCAGGAAGATGGCATTGGGATCCTGTG 424
      || |||||
171 erLeuGlnValArgLysIleGlnGlyAsp..... 181
      || |||||
423 AGCTGTGTCTCTCCCTGTGGAGAGCTGGGTTCACAGGAGGCTCTGCA 374
      || |||||
182 .....GlyAlaAlaLeuGlnGlyLysLeuCysAlaThrTyLysLeuCy 196
      ::::: ||| ||| ::| |||||
373 GGGCCCCAAGGAGGAGGACCTCTCCAGAAAGCTGCCCCAGGAGGAT 324
      ||||| ::| ||| ::|
196 sHisProGluGluLeuValLeuLeuGlyHisSerLeu..... 208
      ::::: ||| ||| ::| |||||
323 GAGAGGCAAGTGGTCCAGTGTCTCCCGTGTCTGCATCCTCCCTCCAG 274
      ::| |||||
209 ..GlyIleProThrPalaProLeuSerCysProSerGlnAlaLeuGln 224
      ::::: ||| ||| ::| |||||
273 CAGAAAGGTCACTGCTCCAGAAATGCTGTGCTGTGCTCTCTCTCCATCT 224
      ||| |||||
225 LeuAlaGly.....CysLeuSerGlnLeuHisSe 234
      |||||
223 GGGT 220
      |||
234 rGly 235
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seq_name: US09680514.pep:US-09-680-514-5

seq_documentation_block:

; Sequence 5, Application US/09680514

; GENERAL INFORMATION:

; APPLICANT: Yokoi, Haruhiko

; Shiotsu, Yukimasa

; Konishi, Noboru

; TITLE OF INVENTION: NOVEL POLYPEPTIDES

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: NIXON & VANDERHYE P.C.

; STREET: 1100 North Glebe Rd. 8th floor

; CITY: Arlington

; STATE: VA

; COUNTRY: USA

; ZIP: 22201-4741

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,514
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/765,337
FILING DATE: <Unknown>
APPLICATION NUMBER: JP P.HEI.7-102625
FILING DATE: 26-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Crawford, Arthur R.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 249-89
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-816-4000
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 349 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-680-514-5

alignment_scores:
Quality: 82.50 Length: 252
Ratio: 0.743 Gaps: 14
Percent Similarity: 44.048 Percent Identity: 28.175

alignment_block:

us-09-680-514-6/rev x US-09-680-514-5 ..

Align seg 1/1 to: US-09-680-514-5 from: 1 to: 349

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874 TGTCGAAGTGGGACCAACTCGGGGAGATCCCTTCCAGGCGCTGCAGG 825
      |||||
50 CysProGluValHisPro.....LeuProThrProValle 61
      ::::: ||| ||| ::| |||||
824 ACCCCT.....GCTAGAGAAAAGCCCTATGGAG 793
      ||| ||| ||| |||||
61 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 77
      ::::: ||| ||| ::| |||||
792 TTGGCTCAAGCAGCCTGCCAGCTGCAGGCGCTGGTGGGCA..... 751
      ::::: ||| ||| ::| |||||
78 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 90
      ::::: ||| ||| ::| |||||
750 .....GCTGCTCAGGGGAGCCAGGGAT..... 727
      |||||::: ||| ::| |||||
90 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 107
      ::::: ||| ||| ::| |||||
726 .....GCCAGAGAGTGTCCGAGCAGCAGCAGCTCCTCGG 691
      ::::: ||| ||| ::| |||||
107 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 123
      ::::: ||| ||| ::| |||||
690 GTGGCAGCAGCTGTAGTGGGCACACAGCTT..... 661
      ::| ||| ::| |||||
124 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 140
      ::::: ||| ||| ::| |||||
660 .....CTCCTGGAGCGCTGCCCATCGCCTGGATCTTCTCACTTGCCT 615
      ::::: ||| ||| ::| |||||
140 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu. 156
      ::::: ||| ||| ::| |||||
614 AAGCTTTTAAAGGAAGCTGTGTGTAGACTCGAGGCGCGATATGTTGG 565
      |||||
157 .....ArgGlyLysValArgPhe 162
```

```
564 TGCTCTAGAACCCCTCGGAAC.....ACCTCCAGAACCCGCCACCC 521
    ::: :::::|||| ::::: |||
163 LeuMetLeuValGlySerThrLeuCysValArgAlaProThrTy 179
    ::: :::::|||| ::::: |||
520 TCACCGACAGGGTGCACCTCTACAGCATCAGGAACGCACCTTCCT 471
    |||:::|||| |||::: |||::: |||::: |||
179 rArgAlaSerLeuPro.....GlnSerPheLeuLeuLys 192
    |||:::|||| |||::: |||::: |||::: |||
470 CG...GACAGGTGTGGAAGCTCAGGAAGATGGCATTGGGATCCTTGTG 424
    || ||||| ||| ::::: |||
192 erLeuGlnValArgLysIleGlnGlyasp..... 202
423 ACCTGTGCTCTGCCCTGTGAGGAAGCTGGTTCAGAGGCTCTGCA 374
    ||| ||||| ::::: |||
203 .....GlyAlaLeuGlnGlnLysLeuCysAlaThrTyLysLeuCy 217
    ||| ||||| ::::: |||
373 GGGCCCCAAGGAGGAGGACCTGTCCAGAAAGCTGCCCGCAGGAGGAT 324
    |||:::|||| ::::: |||
217 sHisProGlnGluLeuValLeuLeuGlyHisSerLeu..... 229
323 GAGAGGCAAGTGGGTGCCAGTTGTCCCGTGTGCCATCCTCCCTCAG 274
    ::::: ||||| ||| ::::: |||||
230 ..GlyIleProTrpAlaProLeuSerCysProSerGlnAlaLeuGln 245
    ::::: ||||| ||| ::::: |||||
273 CAGAAGGCTCACTGCCAGATGTCTGTGCTGTGCTGTGCTCTCCATCT 224
    ||| ||||| ::::: |||
246 LeuAlaGly.....CysLeuSerGlnLeuHis 255
223 GGGT 220
    |||
255 rGly 256
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seq_name: US09680514.pep:US-09-680-514-24

seq_documentation_block:

; Sequence 24, Application US/09680514

; GENERAL INFORMATION:

; APPLICANT: Yokoi, Haruhiko

; Shiotsu, Yukimasa

; Konishi, Noboru

; TITLE OF INVENTION: NOVEL POLYPEPTIDES

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: NIXON & VANDERHYE P.C.

; STREET: 1100 North Glebe Rd. 8th floor

; CITY: Arlington

; STATE: VA

; COUNTRY: USA

; ZIP: 22201-4741

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/680,514

; FILING DATE: 06-Oct-2000

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/765,337

; FILING DATE: <Unknown>

; APPLICATION NUMBER: JP P.HEI.7-102625

; FILING DATE: 26-APR-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Crawford, Arthur R.

; REGISTRATION NUMBER: 25,327

; REFERENCE/DOCKET NUMBER: 249-89

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 703-816-4000

; TELEFAX: 703-816-4100

; INFORMATION FOR SEQ ID NO: 24:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 13 amino acids

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;
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-09-680-514-24

alignment_scores:
    Quality: 71.00      Length: 13
    Ratio: 5.462        Gaps: 0
    Percent Similarity: 100.000    Percent Identity: 100.000

alignment_block:
us-09-680-514-6 x US-09-680-514-24 ..

Align seg 1/1 to: US-09-680-514-24 from: 1 to: 13

523 GGTGGCGGTCTCGAGGTGGTTCGGAGGGGTCTCTAGA 561
|||||
1 GlyGlyGlySerGlyGlySerGlyGlySerGlyGlySerArg 13
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OM of: us-09-680-514-8 to: US09680514.pep:* out_format : pfs
Date: Apr 8, 2002 2:24 PM
About: Results were produced by the GenCore software, version 4.5,
Copyright (c) 1993-2000 CompuGen Ltd.

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-CGAPOP=4.500 -CGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500
-FGAPOP=6.000 -FGAPEXT=7.000 -XGAPOP=10.000 -YGAPEXT=0.500
-DELOP=6.000 -DELEXT=7.000 -START=1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=pct
-THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTENT=pfs
-NORW=ext -MINLEN=0 -MAXLEN=200000000 -NCPU=6 -ICPU=3 -LONGLOG
-NO_XLPXY -THREADS=1

Search information block:
Query: us-09-680-514-8
Query length: 1095
Database: US09680514.pep:*
Database sequences: 24
Search time (sec): 3.190000

score_list:	Sequence	Strd Orig	zScore	EScore	Len	Documentation
	US09680514.pep:US-09-680-514-9	1	1857.00	953.49	2.0e-50	365
	US09680514.pep:US-09-680-514-7	1	1813.00	931.03	3.6e-49	364
	US09680514.pep:US-09-680-514-3	1	1765.00	906.74	8.4e-48	341
	US09680514.pep:US-09-680-514-5	1	1751.00	899.49	2.1e-47	349
	US09680514.pep:US-09-680-514-2	1	1721.00	884.28	1.5e-46	340
	US09680514.pep:US-09-680-514-1	1	1659.00	852.75	9.0e-45	328
	US09680514.pep:US-09-680-514-39	1	851.00	442.83	1.1e-21	175
	US09680514.pep:US-09-680-514-40	1	817.00	421.59	9.2e-21	332
	US09680514.pep:US-09-680-514-3	1	97.50	53.01	2.50	344
	US09680514.pep:US-09-680-514-9	1	97.50	52.66	2.44	365
	US09680514.pep:US-09-680-514-2	1	93.50	51.03	3.10	340
	US09680514.pep:US-09-680-514-7	1	93.50	50.67	3.02	361
	US09680514.pep:US-09-680-514-35	1	93.00	68.68	7.95	17
	US09680514.pep:US-09-680-514-1	1	89.50	49.20	3.83	328
	US09680514.pep:US-09-680-514-5	1	89.50	48.83	3.72	349
	US09680514.pep:US-09-680-514-42	1	88.00	66.48	11.10	16
	US09680514.pep:US-09-680-514-44	1	66.00	56.94	46.50	12
	US09680514.pep:US-09-680-514-24	1	66.00	56.46	45.32	13
	US09680514.pep:US-09-680-514-40	1	59.00	33.51	8.08	332
	US09680514.pep:US-09-680-514-15	1	48.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-17	1	48.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-39	1	48.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-31	1	44.00	31.71	15.44	175
	US09680514.pep:US-09-680-514-45	1	44.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-33	1	42.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-28	1	40.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-26	1	36.00	0.00	301.11	9
	US09680514.pep:US-09-680-514-42	1	34.00	38.84	153.23	16
	US09680514.pep:US-09-680-514-35	1	34.00	38.47	145.82	17
	US09680514.pep:US-09-680-514-44	1	32.00	39.53	199.52	12
	US09680514.pep:US-09-680-514-24	1	32.00	39.05	187.26	13
	US09680514.pep:US-09-680-514-15	1	24.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-21	1	23.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-31	1	23.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-33	1	23.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-17	1	22.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-45	1	22.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-26	1	22.00	0.00	301.11	9
	US09680514.pep:US-09-680-514-19	1	20.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-21	1	20.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-19	1	18.00	0.00	338.75	8
	US09680514.pep:US-09-680-514-28	1	17.00	0.00	338.75	8

seq_name: US09680514.pep:US-09-680-514-9
seq_documentation_block:
; Sequence 9, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-680-514-9

alignment_scores:
Quality: 1857.00 Length: 365
Ratio: 5.088 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
us-09-680-514-8 x US-09-680-514-9 ..
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1 ATGGAGCTGACTGATGCTTCCTCGTGGTGCATGCTCTCTCACTGCAAG 50
|||||
1 MetGluLeuThrGluLeuLeuLeuValMetLeuLeuLeuThrAlaAr 17
|||||
51 GCTAACCTGCTCAGCCGCTCTCTCTGCTGTGTGAGCTCCGAGTCTCTCA 100
|||||
17 gLeuThrLeuSerSerProAlaCysAspLeuArgValLeuS 34
|||||
101 GTAAACTGCTTCGTGACTCCCATGCTCTTCACAGCAGACTGACCGAGTGC 150
|||||
34 erLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCys 50
|||||
151 CCAGAGGTTACCCCTTGCTTGCCTACCTGCTGCTGCTGCTGCTGCTGCTT 200
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seq_name: US09680514 pep:US-09-680-514-7

seq_documentation_block:
; Sequence 7, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;               Shioetsu, Yukimasa
;               Shioishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHVE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-680-514-7

alignment_scores:
Quality: 1813.00 Length: 365
Ratio: 5.022 Gaps: 2
Percent Similarity: 98.904 Percent Identity: 98.904

alignment_block:
us-09-680-514-8 x US-09-680-514-7 ..

Align seg 1/1 to: US-09-680-514-7 from: 1 to: 361

1 ATGGAGCTGACTGAATGTGCTCCGTGGTCAATGCTTCTCCTAACTGCAAG 50
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1 MetGluLeuThrGluLeuLeuLeuValValMetLeuLeuLeuThrAlaIar 17

51 GCTAACGGTGTCCAGCCGGCTCCTCTCGCTGTGTGACCTCGAGTCTCTCA 100
|||||
17 gLeuThrLeuSerSerProAlaProProAlaCysAspLeuArgValLeu 34

101 GTAAACTGCTTCGTGACTCCCACTGCTCTTCCACACACAGACTGAGCAGTGC 150
|||||
34 e rLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCys 50

151 CCAGAGGTTTCACCCCTTGGCTACACCTTGCTGCTGCTGCTGCTGGACTT 200
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51 ProGluValHisProLeuProThrProValLeuLeuProAlaValAspPh 67
201 TAGCTTGGAGATGGAACCCAGATGGAGGACCAAGGCACAGGACA 250
    |||||||
67 eSerLeuGlyGluTrpLysThrGlnMetGluGluThrLysAlaGlnAspI 84
    |||||||
251 TTCTGGAGCAGTGACCTTCTGCTGGAGGAGTGTGGCAGCAGCGGGA 300
    |||||||
84 leLeuGlyAlaValThrLeuLeuLeuGluGlyValMetAlaAlaArgGly 100
    |||||||
301 CAATGGGACCCACTTCCCTCTATCCCTCTCTGGGCGAGCTTCTTGACA 350
    |||||||
101 GlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyG 117
    |||||||
351 GGTCCGCTCTCTCTGGGCGCTGACAGACCTCTTGGAAACCCAGCTTC 400
    |||||||
117 nValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuP 134
    |||||||
401 CTCCACAGGCGAGGACACAGCTCACAGGATCCCAATGCCATCTTCTGT 450
    |||||||
134 roProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeu 150
    |||||||
451 AGCTTCCAACACCTGCTCCGAGGAAGGTGGTTCCTCTGATGCTGTAGG 500
    |||||||
151 SerPheGlnHisLeuLeuArgGlyLysValArgPheLeuMetLeuValG 167
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501 AGGTCCACCCCTCTGCTGAGGTCGGGAGGTGGCTCTGGCGGTGTCTG 550
    |||||||
167 yGlySerThrLeuCysValarg...GlyGlyGlySerGlyGlyGlySerG 183
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551 GTGGCGGCTCCGAGGCGGTGTCGCGCAACATATCGCGCTCGAGPCTA 600
    |||||||
183 lyGlyGlySer.....ArgAlaProThrTyrArgAlaSerSerLeu 196
    |||||||
601 CCACAGAGCTCTCTTTAAAGCTTAGACCAAGTGAGGAGATCCAGGG 650
    |||||||
197 ProGlnSerPheLeuLeuLysSerLeuGlnValArgLysIleGlnG 213
    |||||||
651 CGATGGCGCAGCGCTCCAGGAGAGCTGTGTGCCACCTACAAGTGTGCC 700
    |||||||
213 yAspGlyAlaAlaLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysh 230
    |||||||
701 ACCCGAGGAGCTGGTCTGCTGGGACACCTCTGCGCATCCCTCTGGGCT 750
    |||||||
230 isProGluGluValLeuLeuGlyHisSerLeuGlyIleProTrpAla 246
    |||||||
751 CCCCTGAGCAGCTGCCCGACGCGGCTCGAGCTGGCAGGCTGCTTGAG 800
    |||||||
247 ProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSe 263
    |||||||
801 CCAACTCCATAGCGGCTTTTCTCTACAGGGGCTCTCGAGGCGCTGG 850
    |||||||
263 rGlnLeuHisSerGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuG 280
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851 AAGGATCTCCCGGAGTTGGTCCCACTTGGACACACTGCAGCTGGAC 900
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280 luGlyIleSerProGluLeuGlyProThrLeuAspThrLeuGlnLeuAsp 296
    |||||||
901 GTGCGGACTTTGCCACCACTTGGCAGCAGATGGAAGACTGGGAAT 950
    |||||||
297 ValAlaAspPheAlaThrIleTrpGlnGlnMetGluLeuGlyMe 313
    |||||||
951 GGCCCTCGCCCTCGAGCCCAAGGAGGTCATGCCGCGCTTGGCTCTG 1000
    |||||||
313 tAlaProAlaLeuGlnProThrGlnGlyAlaMetProAlaPheAlaSerA 330
    |||||||
1001 CTTTCCAGCCCGGCGAGGAGGCTCTAGTTGCTCCCTCCCAATCTGCAGAGC 1050
    |||||||
330 laPheGlnArgArgAlaGlyGlyValLeuValAlaSerHisLeuGlnSer 346
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1051 TTCTTGAGGTGTCGTACCGCTTCTACGCCACCTTGTCCCGAGGCC 1095
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347 PheLeuGluValSerTyrArgValLeuArgHisLeuAlaGlnPro 361
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seq_name: US09680514.pep:US-09-680-514-3
seq_documentation_block:
; Sequence 3, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-680-514-3

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alignment_scores:
Quality: 1765.00 Length: 344
Ratio: 5.131 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000
alignment_block:
us-09-680-514-8 x US-09-680-514-3
Align seg 1/1 to: US-09-680-514-3 from: 1 to: 344

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1 SerProAlaProProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
114 TGACTCCCATGTCTTTCACAGCAGACTGAGCCAGTCCCGAGAGTTTACC 163
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTTGGCTACACCTGTCTCTGCTGCTGTGGACTTTAGCTTGGGAGAA 213
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAACCACGATGGAGGAGACCAAGGCACAGACATTTCTGGAGCAGT 263

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51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVal 67
264 GACCCCTCTCTGCTGGAGGAGTGTGGCAGCAGGGGACAACTGGGACCCA 313
67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProT 84
314 CTGGCTCTCATCCCTCCTCGGGGAGCTTTCTGGACAGGTCCTCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTGGGGCCCTGCAGAGCTCTTGGAAACCCAGCTTCTCCACAGGCGAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
414 GACCACAGCTCACAGGATCCATGATCCATCTCTCTGAGCTTCCACACC 463
117 gThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCTCCGAGGAAAGTTCCTGATGCTTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
514 TCGTAGCTCCGAGGTGGCTCTGGCGGTGTGTGGTGGCGGCTCCGG 563
151 CysValArgSerGlyGlySerGlyGlySerGlyGlySerGlyGlySerG 167
564 AGCGGTGCTGCGCAACATATCGCGCTCGAGTCTACACAGAGCTTCC 613
167 yGlyGlyArgAlaProThrTyrArgAlaSerSerLeuProGlnSerPheL 184
614 TTTTAAAAAGCTTAGACAAGTGGAGGATCCAGGCGAGTGGCGAGCG 663
184 euLeuLysSerLeuGluGlnValArgLysIleGlnGlyAspGlyAlaAla 200
664 CTCAGAGAGAGCTGTGTGCACCTACAAGCTGTGCCACCCCGAGAGCT 713
201 LeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProGluGlu 217
714 GGTGCTGCTCGACACACTCTGGGCATCCCTGGCTCCCTCAGCAGCT 763
217 uValLeuLeuGlyHisSerLeuGlyIleProThrAlaProLeuSerSerC 234
764 GCGCCAGCCAGGCGCTCAGCTGCGAGGCTGTGAGCCCAACTCCATAGC 813
234 ysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSer 250
814 GGCCTTTTCTCTACAGGCGCTCTCGAGGCTTGGAGGGATCTCCCC 863
251 GlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerPr 267
864 CGAGTTGGTCCCACTTGGACACACTGACGCTGGAGCTGGCGGACTTTG 913
267 oGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPhea 284
914 CCACCACTATCTGCGACAGATGGAAGAACTGGGAATGGCCCTGCGCTG 963
284 laThrThrIleTrpGlnMetGluGluLeuGlyMetAlaProAlaLeu 300
964 CAGCCCAACCCAGGTGCCATCGCGGCTTGGCTCTGCTTTCAGGCGCG 1013
301 GlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgAr 317
1014 GCGAGGAGGCTCTAGTTCCTCCATCTGACAGCTTCTCTGAGGTGT 1063
317 gAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluValS 334
1064 CGTACCGGTCTTACGCCACCTTGGCCAGGCC 1095
334 erTyrArgValLeuArgHisLeuAlaGlnPro 344
seq_name: US09680514.pep:US-09-680-514-5
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seq_documentation_block:
; Sequence 5, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; ; Shioetsu, Yukimasa
; ; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 349 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-680-514-5

alignment_scores:
Quality: 1751.00 Length: 365
Ratio: 5.017 Gaps: 1
Percent Similarity: 95.616 Percent Identity: 95.616

alignment_block:
US-09-680-514-8 x US-09-680-514-5 ...
Align seg 1/1 to: US-09-680-514-5 from: 1 to: 349
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|||||
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|||||
17 gLeuThrLeuSerSerProAlaProAlaCysAspLeuArgValLeuS 34
101 GTAAACTGCTTCGTGACTCCCATGCTTTCACAGCAGACTGAGCCAGTGC 150
|||||
34 erLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCys 50
151 CCAGAGGTTTACCCCTTTCCTACACCTGTCTCTGCTGCTGCTGGACTT 200
|||||
51 ProGluValHisProLeuProThrProValLeuLeuProAlaValAspPh 67
201 TAGCTTGGGAGAAATGGAAAAACCCAGATGGAGGAGACCAAGGCACAGCA 250
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84 leLeuGlyAlaValThrLeuLeuLeuGluGlyValMetAlaAlaArgGly 100
301 CAACTGGACCCACTGCTCTCATCCCTCCTGGGCGAGCTTCTTGACA 350
101 GlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGI 117
351 GGTCCGCTCTCTCTGGGGCCCTGCAGAGCTCTTGGACCCAGCTTC 400
117 nValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuP 134
401 CTCACAGCGGAGGACACAGCTCACAGGATCCCAATGCCATCTTCCTG 450
134 roProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeu 150
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151 SerPheGlnHisLeuLeuArgGlyLysValArgPheLeuMetLeuValGI 167
501 AGGTCCACCTCTGCTGACGTACGGTCCGAGGTGGCTCTGGCGGTTCG 550
167 yGlySerThrLeuCysValArg..... 174
551 GTGGCGCTCGGAGCGGCTGCTGGCCACATATCGGCGCTCGAGTCTA 600
175 .....ArgAlaProThrTyrArgAlaSerSerLeu 184
601 CCACAGAGCTCTCTTTAAAAAGCTTAGAGCAAGTGAGGAATCCAGGG 650
185 ProGlnSerPheLeuLeuLysSerLeuGluGlnValArgLysIleGlnGI 201
651 CGATGGCGCAGCTCCAGGAGAGCTGTGTGCCACCTACAGCTGTGCC 700
201 yAspGlyAlaAlaLeuGlnGluLysLeuCysAlaThrTyrLysLeuCysH 218
701 ACCCGAGGAGCTGCTGCTCGGACACTCTCTGGGCATCCCTGGGCT 750
218 isProGluGluLeuValLeuLeuGlyHisSerLeuGlyIleProTrpAla 234
751 CCCGTGACAGCTGCCACAGCCCTGCAGCTGGCAGGCTGCTTGAG 800
235 ProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSe 251
801 CCAACTCCATAGCGGCTTTCTCTACCGGGCTCTGCAGGCGCTGG 850
251 rGlnLeuHisSerGlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuG 268
851 AAGGATCTCCCGAGTGGGTGCCACTTGGACACACTCAGCTGGAC 900
268 luGlyIleSerProGluLeuGlyProThrLeuAspThrLeuGlnLeuAsp 284
901 GTCGCCGACTTTGCCACCATCTGGCAGCAGATGGAAGAACTGGGAAT 950
285 ValAlaAspPheAlaThrThrIleTrpGlnGlnMetGluLeuGlyMe 301
951 GGCCCTGCTGAGCCACCCAGGCTGCCATGCCGGCTTTCGCTCTG 1000
301 tAlaProAlaLeuGlnProThrGlnGlyAlaMetProAlaPheAlaSerA 318
1001 CTTTCCAGCGCGGCGAGGAGGTCTAGTTGCTCCCATCTCGAGGC 1050
318 laPheGlnArgArgAlaGlyValLeuValAlaSerHisLeuGlnSer 334
1051 TTCCTGGAGGTGCTGCTACCGGCTTACGCCACCTTGCACGCC 1095
335 PheLeuGluValSerTyrArgValLeuArgHisLeuAlaGlnPro 349
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seq_documentation_block:
: Sequence 2, Application US/09680514
: GENERAL INFORMATION:
: APPLICANT: Yokoi, Haruhiko
: Shiotsu, Yukimasa
: Konishi, Noboru
: TITLE OF INVENTION: NOVEL POLYPEPTIDES
: NUMBER OF SEQUENCES: 45
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: NIXON & VANDERHVE P.C.
: STREET: 1100 North Glebe Rd. 8th floor
: CITY: Arlington
: STATE: VA
: COUNTRY: USA
: ZIP: 22201-4741
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/680,514
: FILING DATE: 06-Oct-2000
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/765,337
: FILING DATE: <Unknown>
: APPLICATION NUMBER: JP P.HEI.7-102625
: FILING DATE: 26-APR-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Crawford, Arthur R.
: REGISTRATION NUMBER: 25,327
: REFERENCE/DOCKET NUMBER: 249-89
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 703-816-4000
: TELEFAX: 703-816-4100
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 340 amino acids
: TYPE: amino acid
: STRANDEDNESS: <Unknown>
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-680-514-2

alignment_scores:
Quality: 1721.00 Length: 344
Ratio: 5.062 Gaps: 2
Percent Similarity: 98.837 Percent Identity: 98.837

alignment_block:
us-09-680-514-8 x US-09-680-514-2 ..
Align seg 1/1 to: US-09-680-514-2 from: 1 to: 340
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114 TGACTCCCATGCTCTCACAGCAGACTGAGCCAGTGCCCGAGAGGTTCACC 163
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17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTTGCCTACACCTGCTCTGCTGCTGCTGTGGACTTTAGTTGGAGAA 213
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67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProT 84
314 CTTGCCCTCATCCCTCTCTGGGAGCTTTCTGGACAGGTCGCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTTGGGGCCCTGCAGAGCCTCTTGGAAACCCAGCTTCTCCACAGGGCAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyAr 117
414 GACCACAGCTCACAAAGATCCCAATGCCATCTTCTGAGCTTCCAACACC 463
117 gThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCCTCCGAGGAAAGTGGCTTCTGATGCTTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
514 TGCCTACGGTCCGGAGGTGGCTCTGGCGGTGGTCTGCTGGCGGCTCCGG 563
151 CysValArg...GlyGlyGlySerGlyGlyGlySerGlyGlyGlySer.. 165
564 AGCGGTGCTGCGCCCAACATATCGCGCTCGAGTCTACACAGAGCTTCC 613
166 .....ArgAlaProThrTyArgAlaSerSerLeuProGlnSerPheL 180
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180 euLeuLysSerLeuGluGlnValArgLysIleGlnGlyAspGlyAlaAla 196
664 CTCAGGAGAAGCTGTGTGCCACCTACAAGCTGTGCCACCCCGAGGAGCT 713
197 LeuGlnGlnLysLeuCysAlaThrTyLysLeuCysHisProGluGluLe 213
714 GGTGCTGCTCGACACTCTCTGGGCATCCCTCGGCTCCCTCAGCAGCT 763
213 uValLeuLeuGlyHisSerLeuGlyIleProTrpAlaProLeuSerSerC 230
764 GCGCCAGCAGCGCCCTGCAGCTGGCAGGCTGCTTGAGCCAACTCCATAGC 813
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814 GGCCTTTCTCTTACCAGGGGCTCTGCAGGCGCTTGAAGGGATCTCCCC 863
247 GlyLeuPheLeuTyGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerPr 263
864 CGAGTTGGTCCCACTTGGACACTGCAGCTGGAGCTGCGCGACTTTG 913
263 oGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPheA 280
914 CCACCACCATCTGCAGCAGATGAAGAACTGGGAATGGCCCTGCCCTG 963
280 laThrThrIleTrpGlnGlnMetGluGluLeuGlyMetAlaProAlaLeu 296
964 CAGCCCAACCCAGGTGCATCCCGGCTCTGCCTCTGCTTTTCCAGGCGCG 1013
297 GlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgAr 313
1014 GCGAGGAGGCTCTAGTTGCTCCCATCTGCAGAGCTTCTCGAGGTGT 1063
313 gAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluValS 330
1064 CGTACCGGTTCTACGCACCTTCCCGAGGCC 1095
330 erTyArgValLeuArgHisLeuAlaGlnPro 340
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seq_name: US09680514.pep:US-09-680-514-1

seq_documentation_block:

; Sequence 1, Application US/09680514

; GENERAL INFORMATION:

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APPLICANT: Yokoi, Haruhiko
Shiotsu, Yukimasa
Konishi, Noboru
TITLE OF INVENTION: NOVEL POLYPEPTIDES
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
STREET: 1100 North Glebe Rd. 8th floor
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22201-4741
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,514
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/765,337
FILING DATE: <Unknown>
APPLICATION NUMBER: JP P.HEI.7-102625
FILING DATE: 26-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Crawford, Arthur R.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 249-89
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-816-4000
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 328 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-680-514-1
```

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alignment_scores:
Quality: 1659.00 Length: 344
Ratio: 5.058 Gaps: 1
Percent Similarity: 95.349 Percent Identity: 95.349
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alignment_block:

us-09-680-514-8 x US-09-680-514-1 . . .

Align seg 1/1 to: US-09-680-514-1 from: 1 to: 328

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64 AGCCCGGCTCCTCTGCTGTGACCTCCGAGTCCCTCAGTAACTGCTTCG 113
1 SerProAlaProAlaCysAspLeuArgValLeuSerLysLeuLeuAr 17
114 TGACTCCCATGTCTTCACAGCAGCTGAGCCAGTGCACAGAGGTTCCACC 163
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTTGCCTACACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 213
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAACCCAGATGGAGAGACCAAGGACACGACATTTCTGGAGCAGT 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67
264 GACCCCTTCTGCTGGAGGAGTGTATGGCAGCAGCGGGGACAACTGGGACCCA 313
67 lThrLeuLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProT 84
```

```
314 CTGCTCTCATCCCTCTCTGGGGAGCTTTCTGGACAGGTCCGTCCTCTC 363
      |||
84  hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
      |||
364 CTGCGGCGCTGCAGAGCTCTTGGACCCAGCTTCTCCACAGGCGAG 413
      |||
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
      |||
414 GACCACAGCTCACAGGATCCCAATGCCATCTCTGAGCTTCCAACACC 463
      |||
117 gThrThralahisylasppProasnAlaIlePheLeuSerPheGlnHisL 134
      |||
464 TGCTCCGAGGAAAGTGGTTCCTGATGCTGTAGGAGGCTCCACCCCTC 513
      |||
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
      |||
514 TGCGTACGGTCCGAGGAGGTGGCTCTGGCGGTGGTCTGGTGGCGGCTCGG 563
      |||
151 CysValArg..... 153
564 AGCGGGTCTGCGCGCAACATATCGCGCTCGAGTCTACACAGAGCTTCC 613
      |||
154 .....ArgAlaProThrTyrArgAlaSerSerLeuProGlnSerPheL 168
      |||
614 TTTTAAAGCTTAGACAAGTGAAGAGATCCAGGGCGATGGCGCAGCG 663
      |||
168 euLeuLysSerLeuGlnValArgLysIleGlnGlyAspGlyAlaAla 184
      |||
664 CTCAGGAGAGCTGTGTGCCACCTACAGCTGTGCCACCCCGAGGAGCT 713
      |||
185 LeuGlnGluLysLeuCysAlaThrTyrLysLeuCysHisProGluGluLe 201
      |||
714 GGTGCTGCTCGCACACTCTCTGGGCATCCCTGGGCTCCCTCGAGCAGCT 763
      |||
201 uValLeuLeuGlyHisSerLeuGlyIleProTrpAlaProLeuSerSerc 218
      |||
764 GCGCCAGCCAGGCGCTCGAGCTGGCAGGCTGTTGAGCCAACTCCATAGC 813
      |||
218 ysProSerGlnAlaLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSer 234
      |||
814 GCGCTTTCTCTACAGGGGCTCTCGAGGCGCTTGAAGGAGTCTCCCG 863
      |||
235 GlyLeuPheLeuTyrGlnGlyLeuLeuGlnAlaLeuGluGlyIleSerPr 251
      |||
864 CGAGTTGGTCCCGCTTGGACACACTGCAGCTGCAGCTGCGCGACTTG 913
      |||
251 oGluLeuGlyProThrLeuAspThrLeuGlnLeuAspValAlaAspPheA 268
      |||
914 CCACCACCATCTGCAGCAGATGGAAGAACTGGGAATGGCCCTCGCCTG 963
      |||
268 laThrThrIleTrpGlnMetGluLeuGlyMetAlaProAlaLeu 284
      |||
964 CAGCCCGCCAGGTCGATCGCGGCTCTGCCCTCTGCTTTCAGCGCGCG 1013
      |||
285 GlnProThrGlnGlyAlaMetProAlaPheAlaSerAlaPheGlnArgAr 301
      |||
1014 GCGAGGAGGGTCTCTAGTTGGCTCCCATCTGCAGAGCTTCTCTGGAGTGT 1063
      |||
301 gAlaGlyGlyValLeuValAlaSerHisLeuGlnSerPheLeuGluValS 318
      |||
1064 CGTACCGCGTTCAGGCACCTTCCCGCAGGCC 1095
      |||
318 ertYrArgValLeuArgHisLeuAlaGlnPro 328
      |||
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seq_name: US09680514.pep:US-09-680-514-39

seq_documentation_block:

; Sequence 39, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shlotsu, Yukimasa
; Konishi, Noboru

```
TITLE OF INVENTION: NOVEL POLYPEPTIDES
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSSEE: NIXON & VANDERHYE P.C.
STREET: 1100 North Glebe Rd. 8th floor
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22201-4741
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,514
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/765,337
FILING DATE: <Unknown>
APPLICATION NUMBER: JP P.HEI.7-102625
FILING DATE: 26-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Crawford, Arthur R.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 249-89
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-816-4000
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-09-680-514-39
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alignment_scores:

Quality: 851.00 Length: 173
Ratio: 5.065 Gaps: 0
Percent Similarity: 97.110 Percent Identity: 97.110

alignment_block:

us-09-680-514-8 x us-09-680-514-39 ..

Align seg 1/1 to: US-09-680-514-39 from: 1 to: 175

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577 CCAACATATCGCGCTCGAGTCTACACAGAGCTTCCTTTTAAAGCTT 626
      |||
3  ProLeuGlyProAlaSerSerLeuProGlnSerPheLeuLeuLysCysLe 19
      |||
627 AGAGCAAGTGAAGAGATCCAGGGCGATGGCGCAGCGCTCCAGGAGAAC 676
      |||
19 uGluGlnValArgLysIleGlnGlyAspGlyAlaAlaLeuGlnGluLysL 36
      |||
677 TGTGTGCCACCTACAAGCTGTGCCACCCCGAGGAGCTGGTCTCGGA 726
      |||
36 euCysAlaThrTyrLysLeuCysHisProGluGlyLeuValLeuLeuGly 52
      |||
727 CACTCTCTGGGCATCCCTGGGCTCCCTGAGCAGCTGCCCGCAGCCAGGC 776
      |||
53 HisSerLeuGlyIleProTrpAlaProLeuSerSerCysProSerGlnAl 69
      |||
777 CTTGACAGCTGGCAGGCTGCTGTAGCCAACTCCATPAGCGGCTTTTCTCT 826
      |||
69 aLeuGlnLeuAlaGlyCysLeuSerGlnLeuHisSerGlyLeuPheLeu 86
      |||
827 ACCAGGGGCTCTCGCAGGCGCTTGAAGGAGTCTCCCCCGAGTTGGGTCCC 876
      |||
```

```

86 yrGlnGlyLeuGlnAlaLeuGluGlyIleSerProGluLeuGlyPro 102
877 ACCTTGGACACACTGCAGTCGACGTCGCGACTTTCGCCACCCACCATCTG 926
|||||
103 ThrLeuAspThrLeuGlnLeuAspValAlaAspPheAlaThrThrIleTr 119
|||||
927 GCAGCAGATGGAAGAACTGGGAATGGCCCTCGCCCTCGACGCCACCCACGAG 976
|||||
119 pGlnGlnMetGluGluLeuGlyMetAlaProAlaLeuGlnProThrGlnG 136
977 GTGCCATCGCGCCCTCGCTCTGCTTTCAGCCCGCGGAGAGGGGTC 1026
|||||
136 IyAlaMetProAlaPheAlaSerAlaPheGlnArgAlaGlyGlyVal 152
|||||
1027 CTAGTTGCTCCCATCTGCAGAGCTTCTCGAGGTGTCGTACCGCGTTCT 1076
|||||
153 LeuValAlaSerHisLeuGlnSerPheLeuGluValSerIyrArgVal 169
1077 AGCCACCTTCCCGAGCCC 1095
169 uArgHisLeuAlaGlnPro 175

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seq_name: US09680514.pep:us-09-680-514-40
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seq_documentation_block:
; Sequence 40, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;               Shiotsu, Yukimasa
;               Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-680-514-40

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alignment_scores:
Quality: 817.00      Length: 375

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Ratio: 3.348      Gaps: 14
Percent Similarity: 65.067      Percent Identity: 54.400
alignment_block:
us-09-680-514-8 x US-09-680-514-40  ..

Align seg 1/1 to: US-09-680-514-40 from: 1 to: 332

64 AGCCCGGCTCCTCCTGCTGCTGACCTCCGAGTCTCAGTAAACTGCTTCG 113
1 SerProAlaProProAlaIacysAspLeuArgValLeuSerLysLeuLeu 17
114 TGACTCCCATGTCTCTTCACAGCAGACTGAGCCAGTGCACAGAGTTCCAC 163
17 gAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisP 34
164 CTTTGGCTACACCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 213
34 roLeuProThrProValLeuLeuProAlaValAspPheSerLeuGlyGlu 50
214 TGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTTCTGGGAGCAG 263
51 TrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaVa 67
264 GACCTTCTCTGCTGGAGGAGTGTATGGCAGACCGGGGACAACTGGGACCCA 313
67 lThrLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProt 84
314 CTTGGCTCTCATCCCTCCTGGGCGAGCTTTCTGGACAGGTCCTGCTCCTC 363
84 hrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeu 100
364 CTTGGGCGCTCGCAGAGCTCTTGGAAACCCAGCTTCTCCACAGGGCAG 413
101 LeuGlyAlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyAr 117
414 GACCACAGTTCACAAGATCCCAATGCCATCTTCCTGAGTTCACACACC 463
117 gThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisL 134
464 TGCTCCGAGGAAAGTCCGTTTCTGATGCTTGTAGGAGGTCACCCCTC 513
134 euLeuArgGlyLysValArgPheLeuMetLeuValGlyGlySerThrLeu 150
514 TGGTACGGTCCGAGGAGTGGCTCTGCGCGGTGTCTGCTGGCGGCTCCGG 563
151 CysValArg..... 153
564 AGCGGTGCTGCGCCCAACATATCGCGCTCGAGTCTTACCACAGAGCTTCC 613
154 .....ArgAlaProProThrThrAlaValProSerArgThrSerLeuV 168
614 TTTTAAAAGCTTAGAGCAAGTGAAGAGATCCAGGCGGATGGCGCAGCG 663
168 alLeuThrLeuAsnGluLeuProAsnArgThrSerGly.....Leu 181
664 CTCAGGAGAAGCTGTGTGCCACTACAAAGCTGTGCCACCCCGAGGAGCT 713
182 LeuGluThrAsnPheThrAlaSerAlaArg..... 191
714 GGTGCTGCTCGGACACTCTCTGGGCATCCCTCGGCTCC..... 753
192 ....ThrThrGlySerGlyLeu...LeuLysTrpGlnGlnGlyPheArgA 206
754 .....CTGAGCAGCTGCCCGCCAGCCAGCCGCTG...CAGCTG 786
206 laLysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIle 222
787 GCAGGCTGCTTAGGCCAACTCCCATAGCGGCTTTTCTCTTACCAGG... 832
223 ProGlyTyrLeuAsnArgIleHisGluLeuLeu.AsnGlyThrArgGlyL 239
833 .....GGCTCTCGAGGCGCTGGAAGGATCTCCC..... 862

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259 CTCCAGAAATCTCTGTGCTGCTGCTCTCCCTCCATCTGGGT 220
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244 .....CysLeuSerGlnLeuHisSerGly 251
seq_name: US09680514.pep:US-09-680-514-9
seq_documentation_block:
; Sequence 9, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;               Shiotsu, Yukimasa
;               Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; REFERENCE NUMBER: 25,327
; REGISTRATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-680-514-9

alignment_scores:
Quality: 97.50 Length: 264
Ratio: 0.841 Gaps: 14
Percent Similarity: 43.939 Percent Identity: 27.273

alignment_block:
us-09-680-514-8/rev x US-09-680-514-9 ..
Align seg 1/1 to: US-09-680-514-9 from: 1 to: 365
886 TGTCCAAAGTGGGACCACTCGGGGAGATCCCTCCAGGGCTGCAGG 837
|||||: ||| ||||| |||||
50 CysProGluValHisPro.....LeuProThrProValle 61
836 AGCCCT.....GCTAGAGAAAGCCGCTATGGAG 805
|||||: ||| ||||| |||||
61 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 77
804 TTGGCTCAAGCAGCTCCAGGCTGCTGCTGGGCA..... 763
|||||: ||| ||||| |||||
78 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrLe 90

```

```

762 .....CTGCTCAGGGAGCCAGGGAT..... 739
|||||: ||||| |||
90 uLeuLeuGluGlyValMetAlaAlaArgGlyGlnLeuGlyProThrCysL 107
738 .....GCCACAGAGTGTCCGAGCAGCAGCAGCAGCTCTCGGG 703
|||||: ||||| ||||| ||||| |||||
107 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 123
702 GTGGCAGAGCTTGTAGTGGCAGACAGCTT..... 673
|||||: ||||| ||||| ||||| |||||
124 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProProGlnGlyArgThrTh 140
672 ...CTCCTGGAGCGTCCGCCCTGCGATCTTCCTCAGTCTCTCT 627
|||||: ||||| ||||| ||||| |||||
140 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeu. 156
626 AGCTTTTAAAGGAGCTCTGTGGTAGACTCGAGCGGCGATATGTGG 577
|||||: ||||| ||||| ||||| |||||
157 .....ArgGlyLysValArgPhe 162
576 CGCAGCAGCGCTCCGAGCGCCACCAGAACCCAGCCAGAGCCAGCTC 527
|||||: ||||| ||||| ||||| |||||
163 LeuMetLeuValGlyGlySerThrLeuCysValArgSerGlyGlyGly 179
526 CGGACCGTACGAGAGGGTGA.....CCCTCCTTACA 495
|||||: ||||| ||||| ||||| |||||
179 rGlyGlyGlySerGlyGlyGlySerGlyGlyGlyArgAlaProThrTy 196
494 AGCATCAG.....GAAACGACCTT.....TCCTCGGAGCAGGTG 460
|||||: ||||| ||||| ||||| |||||
196 rGAlaSerSerLeuProGlnSerPheLeuLeuLysSerLeuGluGln 212
459 TTGGAAGCTCAGGAAGATGCATTGGGATCCTGTGAGCTGTGTCCTG 410
|||||: ||||| ||||| ||||| |||||
213 ArgLysIleGlnGlyAsp.....GlyAlaAl 221
409 CTGTGTGGAGAGCTGGTTTCAAGAGGCTCTGAGGGCCCAAGAGG 360
|||||: ||||| ||||| ||||| |||||
221 aLeuGlnGluLysLeuCysAlaThrTyrlsLeuCysHisProGluGlu 238
359 AGACGACCTGTCCAGAAAGCTCCCGAGGAGGATGAGAGGCAAGTGG 310
|||||: ||||| ||||| ||||| |||||
238 euValLeuLeuGlyHisSerLeu.....GlyIleProTrp 249
309 TCCAGTGTGCCCGTCTGCCATCACTCCAGCAGAGAGGCTCACTG 260
|||||: ||||| ||||| ||||| |||||
250 AlaProLeuSerSerCysProSerGlnAlaLeuGlnLeuAlaGly.... 264
259 CTCCAGAAATGTCTGTGCTGCTCTCTCCATCTGGGT 220
|||||: ||||| ||||| ||||| |||||
265 .....CysLeuSerGlnLeuHisSerGly 272

seq_name: US09680514.pep:US-09-680-514-2
seq_documentation_block:
; Sequence 2, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;               Shiotsu, Yukimasa
;               Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

```

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-103625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-680-514-2

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alignment_scores:
  Quality: 93.50      Length: 261
  Ratio: 0.813       Gaps: 15
  Percent Similarity: 44.061  Percent Identity: 27.969

alignment_block:
us-09-680-514-8/rev x US-09-680-514-2 ..
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Align seg 1/1 to: US-09-680-514-2 from: 1 to: 340

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886 TGTCCTCAAGTGGACCCAACTCGGGGAGATCCTCTCCAGGCGCTCGCAG 837
|||||::: ||| ||||| |||:::
29 CysProGluValHisPro.....LeuProThrProValle 40

836 AGCCCTT.....GGTAGAGAAAGCCGCTATGGAG 805
||| ||| ||| |||::: |||||
40 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 56

804 TTGCTTCAACAGCAGCTGCCAGCTCGGGCGCTGGCTGGGCA.....763
:::|||| |||::: |||||
57 GluThrLysAla.....GlnAspIleLeuGlyAlaValThrIle 69

762 .....GCTGCTCAGGGAGCCCGAGGGAT.....739
|||||:::||||| |||
69 uLeuLeuGluGlyValMetAlaalaargGlyInLeuGlyProThrCysL 86

738 .....GCCACAGAGTGTCCGAGCAGCACGAGCTCTCCGGS 703
:::|||||::: |||::: |||||
86 euSerSerLeuLeuGlyGlnLeuSerGlyInValargLeuLeuLeuGly 102

702 GTGSCACAGCTTGTAGTGGCCACACAGCTT.....673
::: ||| ||||| |||||
103 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 119

672 .....CTCCTCGAGGGCTGCCCATCGCCCTGGATCTTCCTCACTGCCTCT 627
||||| ||||| |||||::: |||||
119 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeu 135

626 AAGCTTTTTAAAGGAAGCTCTGTGTAGACTCGAGGCGCGATATGTCGG 577
||||| |||||::: |||
136 .....ArgGlyLysValArgPhe 141

576 CGCACGACCGCCTCCGGAGCGCCACCAAGCAACCGCCAGAGCCACCTC 527
::: |||||::: |||::: |||

```

```

142 LeuMetLeuVal...GlyGlySerThrLeuCysValArgGlyGlyGlyCyste 157
526 CGGACCGCTACGCAGAGGGTGA.....CCCTCCTACAAGCATCACG. 487
      :::: ||||| |:::||||: |:::||||: |:::
157 rGlyGlyGlySerGlyGlySerArgAlaProThrTyArgAlaSerS 174
486 .....GAAAGCGCACTT.....TCCTCGGAGCAGGTGTGGAACT 451
      :::: ||| |:::||||| |:::
174 erLeuProGlnSerPheLeuLeuLysSerLeuGluGlnValArgLysIle 190
450 CAGGAAGATGGCATTTGGGATCCTTGTCGAGCTGTCCTGCCCTCTGGAG 401
      ||| ||| |::: ||| |:::||||| |:::
191 GlnGlyasp.....GlyAlaAlaLeuGlnGI 199
400 GAAGCTGGGTTCCTCAAGGAGGCTCTGCAGGGCCCCAAGGAGGAGCAGGC 351
      :||| |::: ||| |:::|||| |:::
199 uLysLeuCysAlaThrTyrlsLeuHisProGluGluLeuValLeuL 216
350 TGTCCAGAAGCTGCCCCAGGAGGATGAGAGGCAAGTGGGTCCCAGTTG 301
      ||:||||: ||| |::: ||| |:::
216 euGlyHisSerLeu.....GlyileProTrpAlaProLeu 227
300 TCCTCCCTGTGCCATCACTCCCTCCAGAGAAGGTCTACTGCTCCAGAA 251
      ||| ||| |::: ||||| |:::
228 SerSerCysProSerGlnAlaLeuGlnLeuAlaGly..... 239
250 TGTCTCTGTGCTTGGTCTCCTCCATCTGGGT 220
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240 .....CysLeuSerGlnLeuHisSerGly 247

seq_name: US09680514.pep:US-09-680-514-7

seq_documentation_block:
; Sequence 7, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
;               Shiotzu, Yukimasa
;               Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
; FILING DATE: 26-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Crawford, Arthur R.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 249-89
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

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seq_name: US09680514.pep:US-09-680-514-1

seq_documentation_block:
; Sequence 1, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 North Glebe Rd. 8th floor
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201-4741
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,514
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/765,337
; FILING DATE: <Unknown>
; APPLICATION NUMBER: JP P.HEI.7-102625
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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 328 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-680-514-1

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Quality: 89.50 Length: 258
Ratio: 0.814 Gaps: 14
Percent Similarity: 42.636 Percent Identity: 27.907

alignment_block:
us-09-680-514-8/rev x US-09-680-514-1
Align seg 1/1 to: US-09-680-514-1 from: 1 to: 328

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836 AGCCCT.....GCTAGAGAAAGCGGCTATGGAG 805
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40 uLeuProAlaValAspPheSerLeuGly.GluTrpLysThrGlnMetGlu 56
804 TTGGCTCAAGCAGCTCCAGCTCAGCGGCTGCTGGGCA..... 763
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57 GluThrLysAla.....GlnAspLeuGlyAlaValThrLe 69
762 .....GCTGCTCAGGGAGCCCGAGGAT..... 739
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86 euSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuGly 102
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103 AlaLeuGlnSerLeuLeuGlyThrGlnLeuProGlnGlyArgThrTh 119
672 ....CTCCTGGAGCGCTCGGCATCGCCCTGGATCTTCTCCTCCTGCT 627
119 rAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeu 135
626 AAGCTTTTAAAGGAAGCTCTGTGGTAGACTCGAGGCGCATATGTTGG 577
136 .....ArgGlyLysValArgPhe 141
576 GGCAGCAGCGCTCGGAGCGCC.....ACCAGAACACCGC 539
142 LeuMetLeuValGlyGlySerThrLeuCysValArgAlaProThrTy 158
538 CAGAGCCACCTCCGAGCCGTAGCAGAGGGTGGACCTCTCACAAGCATC 489
158 rArgAlaSerSerLeuPro.....G 165
488 AGGAAACGCACCTTTCCTCG...GAGCAGGTGTGGAAAGCTCAGGAAGAT 442
165 InSerPheLeuLysSerLeuGlnValArgLysIleGlnGlyAsp 181
441 GGCATTGGGATCCTGTGAGCTGTGCTCCTCGCTGTGGAGGAGAGCTGG 392
182 .....GlyAlaAlaLeuGlnLysLeuCy 190
391 TTCCAGAGAGCTCTGAGGGCCCAAGGAGGAGAGGACCTGTCCAGAA 342
190 sAlaThrTyrLysLeuCysHisProGluLLeuValLeuLeuGlyHis 207
341 AGCTGCCCGAGGAGGATGAGAGCAAGTGGTCCCGCTGCTCCCGGTC 292
207 erLeu.....GlyLeProThrAlaProLeuSerSerCys 218
291 TGCCATCACCCTCCAGCAGAGGGTCACTGCTCCAGAAATGCTGTG 242
219 ProSerGlnAlaLeuGlnLeuAlaGly.....Cy 228
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228 sLeuSerGlnLeuHisSerGly 235

seq_name: US09680514.pep:US-09-680-514-5

seq_documentation_block:
; Sequence 5, Application US/09680514
; GENERAL INFORMATION:
; APPLICANT: Yokoi, Haruhiko
; Shiotsu, Yukimasa
; Konishi, Noboru
; TITLE OF INVENTION: NOVEL POLYPEPTIDES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
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